Bids Close		See Eng. News-Record
Apr. 21	Cranes—Spec. 3827— Norfolk, Va.	Apr. 10
Apr. 21	Officers Quarters — Spec. 3829 — South Charleston, W. Va.	Apr. 10
Apr. 21	Galvanizing Plant — Spec. 3772—Norfolk, Va.	Apr. 10
Apr. 21	Pumphouse—Spec. 3826—Rockaway, N. Y.	Apr. 10
Apr. 21	Roads—Spec. 3850—Indianhead, Md.	Apr. 10
Apr. 21	Grading — Spec. 3830 — Washington, D. C.	Apr. 17
Apr. 21	Galvanizing Plant—Spec. 3722—Washington, D. C.	Apr. 17
Apr. 22	Post Office — Sand Point, Idaho	Apr. 17
Apr. 22	Lighthouse — Baltimore, Va.	Apr. 10
Apr. 22	Lighthouse — Baltimore, Md.	Apr. 17
Apr. 23	Post Office—Gilmer, Tex.	Mar. 13
Apr. 23	Earth Work—St. Louis, Mo. Adv. Apr. 3 to 17.	Mar. 27
Apr. 23	Soil and Sod—Galveston, Tex. Adv. Apr. 10 and 17.	Apr. 3
Apr. 23	Levee Work — St. Louis, Mo. Adv. Apr. 3 to 17.	Apr. 10
Apr. 23	Dam, etc.—Scituate, R. I.	Apr. 17
Apr. 24	Lookout Gallery—Saginaw, Mich. Adv. Apr. 3 and 10.	Apr. 10
Apr. 24	Dredging — San Francisco, Cal.	Apr. 3
Apr. 24	Asphalt and tar—Columbus, Ohio Adv. Apr. 17.	Apr. 17
Apr. 25	Towboat—Memphis, Tenn. Adv. Mar. 27 to Apr. 17.	Apr. 3
Apr. 26	Dredging—Norfolk, Va. Adv. Apr. 10.	Apr. 10
Apr. 28	Hangars — Spec. 3792 — Brunswick, Ga.	Apr. 17
Apr. 28	Dredging—New York, N. Y.	Apr. 3
Apr. 28	Cold Storage Building — Spec. 3685 — Cape May, N. J.	Apr. 17
Apr. 28	Officers Quarters — West Point, N. Y. Adv. Apr. 3 and 10.	Apr. 3
Apr. 28	Dormitory — Bismarck, N. D.	Apr. 10
Apr. 29	Dredging — New York, N. Y. Adv. Apr. 10 and 17.	Apr. 3
Apr. 29	Foundation—Pamlico Sound, N. C.	Apr. 10
Apr. 30	Levee Work—St. Louis, Mo. Adv. Apr. 3 to 17.	Apr. 3
Apr. 30	Accumulators, etc.—Louisville, Ky. Adv. Apr. 3 to 17.	Apr. 10
May 1	Wharf—Boston, Mass.	Apr. 3
May 1	Removing Wreck — New York, N. Y.	Apr. 17
May 3	Dredging — Jacksonville, Fla. Adv. Apr. 3 to 17.	Apr. 3
May 5	Dredging—Wilmington, Del. Adv. Apr. 10 and 17.	Apr. 10
May 5	Sewer Discharge Pipe — Spec. 3267 — Pensacola, Fla.	Apr. 17
May 5	Fence — Spec. 3789 — Charleston, W. Va.	Apr. 17
May 6	Lock and Abutment—Cincinnati, O. Adv. Apr. 10 and 17.	Apr. 10
May 6	Alteration to Post Office—Bridgeport, Conn.	Apr. 17
May 8	Marine Railway — Ft. Mifflin, Pa. Adv. Apr. 10 and 17.	Apr. 10
May 8	Post Office—Mount Pleasant, Tex.	Apr. 10
May 9	Rock Crusher — Florence, Ala. Adv. Apr. 10 and 17.	Apr. 10
May 9	Dredging — New York, N. Y. Adv. Apr. 10 and 17.	Apr. 10
May 12	Dredging — New York, N. Y. Adv. Apr. 10.	Apr. 10
May 15	Rip Rap—Baltimore, Md. Adv. Apr. 17.	Apr. 17
May 15	Dredging — New Bedford, Mass. Adv. Apr. 17.	Apr. 17

MISCELLANEOUS

Bids Close		See Eng. News-Record
Apr. 21	Breakwater — Sheboygan, Wis.	Apr. 17
Apr. 21	Levee—Port Allen, La.	Apr. 3
Apr. 22	Steel—Philadelphia, Pa.	Apr. 10
Apr. 22	Paving Material — New York, N. Y.	Apr. 17
Apr. 23	Road Oil—Baltimore, Maryland Adv. Apr. 17.	Apr. 17
Apr. 28	Cranes—Providence, R. I.	Apr. 17
Apr. 28	River Protection—Washington	Apr. 17
Apr. 28	Repairing and Repainting Courthouse — Lancaster, Pa. Adv. Apr. 10.	Apr. 10
Apr. 29	Freight Shed—New York, N. Y. Adv. Apr. 3.	Apr. 3
Apr. 29	Meter Pipes—Toledo, O. Adv. Apr. 10.	Apr. 10
May 2	Wharf—Victoria, B. C.	Apr. 17

Where name of official is not given, inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. J., Jersey City—City rejected bids received Mar. 25, furnishing and laying 39,590 ft. 72 in. riveted steel pipe line between Boonton Reservoir and west entrance of Watchung Tunnel. About $1,500,000. New bids. C. Potts, 30 Church St., New York City, consult. engr. Noted April 3.

Mont., Roundup—City plans to extend water mains. About $12,000. F. Quinnell, Roundup, engr.

Tex., Stevenville—City plans election to vote on $11,500 bonds to extend water mains, sewerage system and improve streets.

Okla., Claremore—City plans election soon to vote on $82,000 bonds, to extend and improve waterworks system.

Okla., Eufaula—City plans election soon to vote on $40,000 bonds to improve waterworks system. H. B. Parris, city clk.

Idaho, Buhl—City election soon to vote on $30,000 bonds, to replace wood pipe with cast iron pipe under proposed paving and bring distribution system, including fire hydrants, up-to-date. McGee & Baird, Caldwell, engrs.

Idaho, Wilder—City plans to build waterworks, tanks and distribution system. About $15,000. Address J. Pfifer, Wilder.

Wash., Bellingham—City plans to build 5400 ft. 16 and 24 in. c.i. water mains between James St. and Mausoleum. About $35,000. C. M. Adams, city engr.

Que., Montreal—City voted $135,375 bonds to extend waterworks system.

Ont., Eastview Center—Town having plans prepared for water distribution plant. About $12,000. H. R. Washington, clk.

B. C., Victoria—Dept. Pub. Wks., Ottawa, soon receives bids installing waterworks system to Williams Head Quarantine Station. About $80,000. D. Lapleur, c/o Dept. Pub. Wks., engr. Noted Apr. 3.

BIDS DESIRED

N. Y., Gilboa—Until May 14, by Bd. Water Supply, Municipal Bldg., New York City, building dam here, same being part of Schoharie Watershed development for New York City water supply. Work includes 1300 ft. masonry overfall, 160 ft. high and 1000 ft. earthen section, etc., Contr. No. 203. L. J. O'Reilly, comr. bd. water supply; advertised in this issue. Noted Mar. 13.

Pa., Pottsville—Until May 5, by J. Archibald, genl. mgr. Girard Water Co., Thompson Bldg., furnishing material and labor for 100,000 cu.yd. earth fill dam with concrete gate tower, bridge, spillway and cutoff wall on Whiskey Mill Creek. Gannett, Seelye & Fleming, 204 Locust St., Harrisburg., engrs.; advertised in this issue.

Ga., La Grange—See "Sewers."

Miss., Hollandale—Until May 13, by Comrs. Black Bayou, D.D., Greenville, building 1 story pumping plant, concrete dam and sluice gate near here, involving 350 cu. yd. concrete, 5½ tons steel, 7000 ft. B. M. timber, 2800 cu. yd. earth excav., 22,000 ft. B. M. sheet piling, 700 lin. ft. round piling and 3 sluice gates. Morgan Eng. Co., Goodwyn Institute, Memphis, Tenn., engrs.

O., Toledo—Until Apr. 25, by Comrs. Lucas Co. laying water pipe line, in Overland Heights, involving 7720 ft. 6 in. c.i. pipe, etc. About $16,800. Noted Mar. 27.

Minn., Brainerd—Until May 8, by city, for improvements to waterworks. Work includes 14 mi. new water mains, 6-8 in. tube wells, 1 open well, pumping station with electric pump equipment and 300,000 gal. tank on 90 ft. rein.-con. tower. About $250,000. L. P. Wolff, 1000 Guardian Life Bldg., St. Paul, consult. engr.

Minn., Ely—Until May 6, by City Council, building sedimentation basin for waterworks system. Separate bids to be made on construction of sedimentation basin and installation and furnishing raw water piping and drainage system. I. Winsted, Jr., city clk.; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Mo., Kansas City—J. R. Samuel, city purch. agt., received bids Apr. 9, building and completing 15,000,000 gal. storage basin at Wabash and St. John Aves., from E. H. Bradbury, 441 Shudley Bldg., $67,470; W. C. Mullins, 1230 Montgall Ave., $71,450; McTernan & Halpin Constr. Co., 48th and Chestnut Sts., $78,305. Noted Mar. 27.

Sewers

PROPOSED WORK

N. Y., Oneida—See "Streets and Roads."

N. Y., Rochester—See "Streets and Roads."

N. J., Phillipsburg—City Comrs. approved $150,000 bond issue to build new sewerage system and sewer oxidation plant. C. E. Tildon, city engr.

Pa., Allentown—City plans to issue $180,000 bonds to build sewers and bridges. H. T. Bascom, city engr.

Md., Cambridge—City plans to build 1400 lin.ft. 24-in. storm sewers and 600 lin.ft. 8-in. sanitary sewer, manholes, inlets, foundations, etc. O. L. Dail, city clk.

Wis., Green Bay—City plans to build 5000 ft. 12 in. vitr. sewer in Bway., Chestnut, Clinton, Yale, Washington, Kurtz and Grignon Sts., Irving Ave. and School Pl. W. Reed, city engr.

Neb., Lincoln—City receives bids about May 15, building 4½ mi. intersecting sewer. Bonds for $100,000 voted for project. A. Dobson, 945 D St., engr. Noted Mar. 6.

Tex., Stevenville—See "Waterworks."

Ariz., Douglas—City defeated $115,000 bond issue to build storm drain system. Noted Jan. 9.

Ore., Astoria—See "Streets and Roads."

Ore., Pendleton—City plans to build sewers in Calvin St. to Bluff St., east from Bluff St. to Marie St. and south on Marie St. to High St.

Cal., Santa Barbara—See "Streets and Roads."

Ont., Woodslee—Town passed ordinance to build tile, stone and timber drains. About $50,000.

Que., Montreal—City voted $197,114 bonds to extend sewerage system.

BIDS DESIRED

Conn., Ridgefield—Until Apr. 25, by Sewer Com. of Burgesses, laying 5200 ft. 8 in. tile sewer and installing two detention tanks, dosing chamber, sludge bed and appurtenances. G. E. Benedict, boro. clk.; advertised in this issue.

Sewers (Continued)

N. Y., New York—Until Apr. 22, by H. Bruckner, pres. Bronx Boro., building sewers and appurtenances in Rhinelander Ave. between Bronxdale and Lurting Aves., Fowler Ave. between Rhinelander and Morris Park Aves., Bogart Ave. between Rhinelander and Morris Park Aves., Radcliff Ave. between Summit south of Rhinelander Ave. and summit north of Rhinelander Ave., Colden Ave. between Rhinelander and Neill Aves., Hone Ave. between Rhinelander and Neill Aves.

Ga., La Grange—Until May 1, by G. H. Sargent, city engr., building 11 mi. sewers, sewage disposal plant, 4 mi. water mains, storage reservoir, 2 mi. transmission line, one 500,000 gal. filter and one 500 gal. per minute horizontal centrifugal pump direct connected to motor and furnishing all labor and materials entering therein. C. L. Smith, clk. and treas.; advertised in this issue.

O., Cleveland—City receiving bids building sewers in East 87th St. from Euclid Ave. to Hough Ave., involving 350 tons crushed slag, 2140 ft. 12-24 in. vitr. pipe; Bosworth Rd. from Thrush Ave. to Governor Ave., 1440 ft. 12-18 in. vitr. pipe; Hamilton Ave. from East 9th to 12th Sts., 630 ft. 12-20 in. vitr. pipe; Church Ave. from West 28th to 29th Sts., 480 ft. 12-18 in. vitr. pipe, East 121st St. from Woodland Ave. to Hamlen Ave., 650 ft. 12-20 in. vitr. pipe; East 174th St. from Lake Shore Blvd. to Grovewood Ave., 60 ft. 12 in. vitr. pipe, 1050 ft. No. 4 C brick sewer, and 730 ft. No. 3 C brick sewer; Superior Ave. from East 12th to 18th Sts., 5000 ft. B. M. wooden invert, 20,000 ft. B. M. plank and timber, 710 ft. No. 5 C brick sewer, 300 ft. No. 4 C brick sewer, 300 ft. No. 3 C brick sewer, 300 ft. No. 2 C brick sewer, 230 ft. 12-20 in. vitr. pipe Superior Ave. from East 21st to 22nd Sts., 2000 ft. B.M. wooden invert, 10,000 ft. B.M. plank and timber, 400 ft. No. C brick sewer, 30 ft. 12 in. vitr. pipe, East 36th St. from Croton Ave. to point 265 ft. south, 310 ft. 12 in. vitr. pipe; Miles Ave. from East 133rd St. to city limits, 1400 ft. No. 4 C brick sewer, 1 junction chamber, 20,000 ft. B. M. plank and timber, and 60 ft. 12 in. vitr. pipe.

O., Toledo—Until Apr. 25, by Comrs. Lucas Co., building sewers in Brussels, Berkshire, Barrow, and Berdan Aves., Overland Heights, involving 6255 ft. 8 in. and 50 ft. 6 in. vitr. pipe, etc. L. A. Boulay, co. engr. Noted Mar. 27.

Mich., Detroit—Until Apr. 30, by Dept. Pub. Wks., furnishing all labor and material (except manhole rings and covers), and building and finishing complete, together with backfilling, Lonyo Rd. Pub. Sewer, Sect. 1, from Dix Ave. to Sta. No. 44, 4186 ft. long, Sect. 2 from Sta. No. 44 to south line Kirkwood Ave., 4132 ft. long, involving 2 barrel rein.-con. sewers each 14 x 14 ft. 6 in. for each barrel; Seven Mile Rd. Pub. Sewer from Woodward to Yakama Aves., 4781 ft. long, cylindrical section varying in size from 11 ft. 3 in. to 10 ft. in diam., brick or monolithic concrete. C. W. Hubbell, city engr.

Wis., Sheboygan—Until Apr. 21, by Bd. Pub. Wks., building sewers in North 3rd St. from Bluff to Bell Aves. and in Geele Ave. from North 3rd St. to North 6th St., involving 2550 lin.ft. 10 in. and 1160 lin.ft. 8 in. vitr. and 156 lin.ft. 10 in. c.i. pipe, etc. C. U. Boley, comr. pub. wks.

S. D., Platte—Until May 8, by C. F. Olate, city aud., building sewerage system and sewage disposal plant; advertised in this issue.

Mo., Macon—Until May 5, by City Council, furnishing labor and material building sewage disposal plant. Work includes Imhoff tank, sludge bed, storm overflow, 790 lin.ft. 18 in. sewer and straightening creek canal. F. L. Wilcox, Syndicate Trust Bldg., St. Louis, engr.; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★R. I., Central Falls—(Pawtucket P. O.)—City will lay 1¼ mi. 8-18 in. c.i. pipe in Hunt St. About $15,000. Work will be done by day labor. Noted Mar. 20.

R. I., Providence—Bd. Contr. & Supplies, received bids building sewers in (a) Ardrene and Gallatin Sts., involving 48 ft. 34 in. and 775 ft. 16 in. brick sewer, 464 ft. 12 in. and 180 ft. 6 and 8 in. pipe sewers; (b) Robert and Rutherglen Sts., 1417 ft. 12 in. and 1482 ft. 16 in. brick sewer, from M. K. Gammino Constr. Co., 428 Grosvenor Bldg., (a) $12,348 (90 days); (b) $39,704 (180 days); A. Aiello, 107 Westminster St., (a) $12,842 (130 days); (b) $33,578 (250 days); Valley Co., 75 Westminster St., (a) $18,933 (90 days); (b) $48,925 (200 days). Noted Apr. 3.

N. Y., Albany—I. Wacksman, secy. bd. contr. & supply, State St., received bids Apr. 7, improving (1) Ridgefield St., (a) asphalt; (b) vitr. block; (2) Park Ave.; (3) Mapleridge St.; (4) grading Bedford St.; (5) building sewer in Frisbie Ave., from P. W. Muldberry, 5 St. Josephs Terrace, (1a) $17,575; (b) $17,950; (3) $22,186; M. F. Dollard, 7 Hall Place, (1a) $18,006; (b) $18,608; (2) $9906; (3) $21,626; T. F. Shaughnessy, 34 South Pine Ave., (2) $11,309; (4) $7786; (5) $997; W. F. Campion, 223 North Pearl St., (4) $9737; (5) $1321; J. Doyle Plumbing Co., 64 Hudson Ave., (5) $1163. Noted Mar. 27.

★N. Y., Brooklyn—E. Riegelmann, boro. pres., let contract building sewer in 59th St. from 20th to 21st Aves., to J. McCauley, 425 6th Ave., $40,471; also in Ave. M from West St. to Ocean Parkway, to De Rienzo & Cox, 1010 60th St., $5096. Noted Apr. 3.

Pa., Pittsburgh—City received bids installing sewers in (a) Jackson St., (b) Baltimore & Ohio private property, (c) Methyl St., (d) Soho playgrounds and north west sidewalk Wyandotte St. to Moultrie St., from Manella Constr. Co., (a) $979; J. Bellesario, (a) $1003, (d) $1987; C. Donatelli, 1313 Collier St., (a): $1090, (b) $8175; M. O'Herron, South 1st and McKean Sts., (b) $7246, (c) $14,677, (d) $210; F. and F. Diulus, 40 Boundary St., (b) $8677, (c) $12,094; M. Ott & Co., 414 Warrington St., (c) $16,798; M. Manello, 5140 Breedshill St., (4) $200. Noted Feb. 20.

★O., Cleveland—Comrs. Cuyahoga Co. let contract building sewers and drains for county jail, West 3rd St. and Lakeside Ave. to J. Duff, 603 Marshall Bldg., Cleveland. About $38,000. Noted Mar. 20, under "Excavation and Dredging."

★O., Cleveland—City let contract building vitr. sewers in sections of East 155th, East 156th, East 159th and East 160th Sts., to A. C. Hattendorf, 1261 6th Ave., East Cleveland, total $11,656; East 156th St., to D. Pfahl, Guardian Bldg., $5378; East 157th St., to Aftoora & Joseph, 887 Arcade Bldg., $2413; Yorick Ave., to W. P. Gibbons, 340 Leader-News Bldg., $2735; Walds Rd., to Fredericks & Housaine, 635 Bradley Court, $2228. Noted Feb. 27.

★Minn., Keewatin—City let contract building extension to sewerage system and sewage disposal plant, to E. W. Coons Constr. Co., Hibbing, $59,184.

★Cal., Seal Beach—City let contract building sewerage system to include sewers, pumping plants, septic tank, etc., to Mlagenovich & Gillespie, 219 Bloom St., Los Angeles, $42,000. Noted Mar. 20.

Bridges

PROPOSED WORK

Pa., Allentown—See "Sewers."

Pa., Dubois—City plans to build bridge. About $25,000. T. North, city engr.

Pa., Pittston—Luzerne Co. (Wilkes-Barre) having plans prepared by D. A. Keefe, engr., Main St., Athens, for rein.-con. bridge here, 1080 ft. long, 40 ft. wide, concrete piers. About $450,000.

Pa., Shickshinny—Luzerne Co. (Wilkes-Barre) having plans prepared by D. A. Keefe, engr., Main St., Athens, building rein.-con. bridge 1550 ft. long, 30 ft. wide, stone piers, here. About $225,000.

W. Va., Spencer—Comrs. Roane Co. plan to build two 35 ft., two 30 ft. and one 25 ft. rein.-con. span bridges, 16 ft. clear roadway, on Spencer-Walton Rd. About $10,000. Federal Government will appropriate toward cost. Woodward & Alexander, Spencer, engrs.

O., Akron—Comrs. Summit Co. receive bids about May 1, building bridge over Little Cuyahoga River, 2700 ft. long, 72 ft. wide. Bonds for $1,600,000 voted for project. Harrington, Howard & Ash, Orear-Leslie Bldg., Kansas City, Mo., engrs.

O., Youngstown—City having preliminary plans prepared building concrete bridge on Ohio Ave. and Tod Lane, 300 ft. long, 30 or 32 ft. wide. About $40,000. F. M. Lillie, city engr.

Wis., Kenosha—City had tentative plans prepared for 150 ft. rein.-con. bascule bridge on Main St., 46 ft. wide. Work consists of straightening Main St., depressing railroad crossing and making elevated approaches by earth fill between retaining wall. About $350,000. P. Hurtgen, city engr.

Ia., Des Moines—City having plans prepared by Marsh Eng. & Constr. Co. engrs., East 7th and Vine Sts., for rein.-con. bridge to have six 102½ ft. spans. About $250,000.

Ia., Independence—Bd. Supervs. Buchanan Co. receives bids in May building 60 rein.-con. bridges and culverts. About $20,595. J. Tschirgi, co. engr.

Wash., Walla Walla—City having plans prepared for 3 concrete bridges. A Behorn, city engr. About $10,000.

Cal., Bay Point—See "Railways" under California.

BIDS DESIRED

Pa., Pine Grove—Until May 6, by J. E. Kanter, co. controller, Schuylkill Co. (Pottsville) building concrete bridge over Swatara Creek, here; advertised in this issue.

Pa., Pottsville—See "Waterworks."

S. C., Lockhart—Until Apr. 30, at office of L. Mills, Lockhart, building 700 ft. steel highway bridge over Broad River, here, for State Highway Comm., Columbia. Plans include two 250 ft. spans and two 100 ft. spans and necessary concrete piers and abutments, involving 885 cu.yd. class 1:2½:5 concrete and 775 lb. reinforcing steel. J. R. Pennell, state highway engr. Noted Apr. 3; advertised in this issue.

Fla., Jacksonville—Harrington, Howard & Ash, engrs., Orear-Leslie Bldg., Kansas City, Mo., receiving bids building steel and concrete bridge over St. John's River here, for city, 2300 ft. long exclusive of approaches. Plans include 30 ft. roadway, two 6 ft walks, etc. About $950,000. Noted Dec. 5.

Wis., Menasha—Until May 3, by City Council, building 430 ft. bridge, 59 ft. wide, over Fox River. Consisting of 7 rein.-con. arches. About $84,000. Parsons & Obert, Milwaukee, engrs. Noted Apr. 10.

Ia., Waverly—Until Apr. 22, by Bd. Supervs. Bremer Co., building bridges in various townships, involving 1048 cu.yd. concrete and 42 tons steel reinforcing. About $21,720. C. A. Cool, co. engr.

Kan., Eureka—Until May 5, by Comrs. Greenwood Co., building Armitage Bridge, 35 ft. girder span, involving 124 cu.yd. concrete and 7941 lb. steel reinforcing; Ivenpaugh Bridge, three 12 ft. spans, low water bridge, involving 110 cu.yd. concrete and 3524 lb. steel reinforcing; also 6 culverts, involving 120 cu.yd. concrete. A. Ross, Eureka, engr.

Tex., Dallas—See "Streets and Roads."

Wash., Toledo—Until Apr. 28, by State Highway Comm., Olympia, building steel bridge over Cowlitz River, on Pacific Highway, here, consisting of four 180 ft. spans and approaches. J. Allen, state highway comr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. Y., Lockport—L. Nixon, supt. pub. wks., Capitol, Albany, received bids Apr. 11, building concrete culvert over Eighteen Mile Creek, Niagara Co., from Savage Constr. Co., 59 Welker St., Buffalo, $11,144; G. J. Metzger, 676 Genesee St., Buffalo, $11,750; W. F. Martens, 245 Cutler Bldg., Rochester, $11,840; Mohawk Dock & Dredge Co., Herkimer, $13,187. Noted Apr. 3 under "Miscellaneous."

★Pa., Connelsville—City let contract building concrete arch bridge over Connell Run, under East Park viaduct, to A. De Polo, Connellsville; $13,354. Work involves 522 cu.yd. foundation excav., 119 cu.yd. channel excav., 785 cu.yd. concrete and 500 sq.ft. mesh reinforcing.

★Ill., Ottawa—G. Farnsworth, supt. highways of La Salle Co., let contract building four 55 ft. span rein.-con. arch bridge on Sheridan St., 18 ft. roadway, to Oltendorf Constr. Co., Palatine, $23,450. Noted Mar. 27.

Bridges (Continued)

★Ia., **Atlantic**—Comrs. Cass Co. let contract building 20 concrete box culverts, 1 concrete slab bridge, 2 I beam bridges with concrete abutments and 2 concrete headwalls, to Wickham Bridge & Pipe Co., Council Bluffs, $47,840. Work involves 2009 cu. yd. rein.-con., 11½ tons structural, 55 tons reinforcing steel and 2688 lin.ft. wooden piling.

★Ia., **Cherokee**—Bd. Supervs. Cherokee Co. let contract to Northwestern Constr Co., Sheldon, building 15 rein.-con. box culverts, involving 646 cu.yd. rein.-con. and 17 tons steel, cost, $12,871; Miller Eng. & Constr. Co., 16 rein.-con. box culverts, 637 cu.yd rein.-con. and 17½ tons steel, $12,703; H. A. Holmes, Aurelia, 11 rein.-con. box culverts, 553 cu.yd. rein.-con. and 14 tons steel, $12,100; G. Gardner & Son, Sheldon, 18 rein.-con. box culverts, 642 cu.yd. rein.-con. and 17½ tons steel, $12,861; Federal Bridge Co., 1122 Equitable Bldg., Des Moines, 4 concrete slab and 2 I beam bridges, 472 cu.yd. rein.-con., 8½ tons structural and 13 tons reinforcing steel and 1900 lin.ft. wooden piling, $13,880; Ward & Weighton, 516 Davidson Bldg., Sioux City, 2 pony truss with concrete abutments, 8 I beam with concrete abutments and 8 concrete slab bridges, 1439 cu.yd. rein.-con., 57 tons structural and 42 tons reinforcing steel and 6044 lin.ft. wooden piling, $18,300.

★Ia., **Emmetsburg**—Comrs. Palo Alto Co. let contract building 4 I beam bridges and 2 pony truss bridges, on concrete abutments, to Iowa Bridge Co., 712 Hubbell Bldg., Des Moines, $30,212. Work involves 796 cu.yd. rein.-con., 45½ tons structural and 21 tons reinforcing steel and 5152 lin.ft. wooden piling.

★Ia., **Ft. Dodge**—City let contract building 3 span concrete arch bridge, 312 ft. long, 42 ft. wide, to G. Koss Constr. Co., 2818 5th St., Des Moines, $49,999.

★Ia., **Mason City**—Bd. Supervs. Cerro Gordo Co. let contract building 1 rein.-con. box culvert, 1 I beam bridge on concrete abutments and 6 concrete deck girder bridges, to Henkel & Brown, Mason City, $20,900. Work involves 1014 cu.yd. rein.-con., 13 tons structural and 38 tons reinforcing steel and 5636 lin.ft. wooden piling.

★Ia., **Tipton**—Comrs. Cedar Co. let contract to F. Smith, Tipton, for 30 concrete box culverts, cost, $12,684; A. Vinall, Davenport, 15 concrete box culverts and one I beam bridge, $8257; C. M. Neal, Lyons, 22 concrete box culverts and 3 I beam bridges, $13,900; S. R. Johnson, Tipton, 27 concrete box culverts and one I beam bridge, $9930; J. Anderson & Son, Maquoketa, 3 pony truss bridges on concrete abutments, $20,600.

★Ia., **Webster City**—Bd. Supervs. Hamilton Co. let contract, to W. F. Baxter, Webster City, building 7 concrete box culverts, 1 concrete deck girder and 1 concrete through girder bridges, $11,310; J. A. Dimkel, Webster City, 1 concrete box culvert, 3 concrete deck girder and 1 concrete through girder bridges, $14,547; A. Swanson Co., Webster City, 5 concrete box culvert, 2 I beam bridges and 1 pony truss bridge, $15,202; W. J. Zitterell, Webster City, one 20 x 120 ft. rainbow arch bridge, $17,487.

★Mo., **Kansas City**—Bd. Park Comrs. let contract building rein.-con. bridge carrying Cliff Drive over Chestnut Ave. Traffic-way, to Concrete Constr. Co., 1821 Independence Bldg., $45,291. Noted Mar. 27.

★Colo., **Denver**—City let contract building 2 rein.-con. bridges, over Cherry Creek on Logan and West Colfax Aves., to F. C. Dreber, Denver, $20,870 and $26,333 respectively. Noted Mar. 13.

★Ont., **Ottawa**—Comrs. Carleton Co. let contract building steel bridge over Mississippi River on 4th concession line, to Ontario Bridge Co., Crown Office Bldg., Toronto. About $55,000.

Structural Steel

BIDS DESIRED

Wash., Toledo—See "Bridges."

Reinforced Concrete

PRICES AND CONTRACTS AWARDED

★Indicates award of contract

Ia., Atlantic—See "Bridges."

PROPOSED WORK

N. Y., East Rochester—See "Industrial Works."

Pa., Phila.—See "Industrial Works."

Pa., Pittston—See "Bridges."

Pa., Shickshinny—See "Bridges."

Ill., Chicago—See "Buildings."

Wis., Kenosha—See "Bridges."

Ia., Independence—See "Bridges."

Wash., Walla Walla—See "Bridges."

Cal., San Francisco—See "Buildings."

BIDS DESIRED

Pa., Pine Grove—See "Bridges."

Wis., Green Bay—See "Miscellaneous."

Ia., Waverly—See "Bridges."

Minn., Elk River—See "Streets and Roads."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Conn., Bristol**—See "Industrial Works."

★**Pa., Connellsville**—See "Bridges."

★**Ia., Atlantic**—See "Bridges."

★**Ia., Emmetsburg**—See "Bridges."

★**Ia., Ft. Dodge**—See "Bridges."

★**Ia., Mason City**—See "Bridges."

★**Ia., Tipton**—See "Bridges."

★**Ia., Webster City**—See "Bridges."

★**Cal., Los Angeles**—See "Buildings."

Streets and Roads

PROPOSED WORK

Mass., Boston—Bd. Pub. Wks. plans to pave Charles St. from Leverett to Beacon Sts., cost $91,000; Cambridge St. from Charles to North Russell Sts., $32,000; Washington St. from Beach to William Sts., $291,000; Tremont St. from Hammond St. to Roxbury Crossing, $109,000; Washington St. from Cliff to Green Sts., $219,000; Boston St. from railway bridge to Edward Everett Sq., $57,000; Dorchester Ave. from Park St. to Peabody Sq., $105,000; East Bway from Dorchester Ave. to city point, $85,000; D St. from Dorchester Ave. to West 1st St., $86,000; H St. to Farragut Rd. except from A St. to railroad crossing, $225,000; Rutherford and Cambridge Sts. from Chapman to Main Sts., $150,000; Main St. (Charlestown) from City Sq. to Sullivan Sq., $214,500; Medford St. from Chelsea to Main Sts., $185,000; Warren St. and Blue Hill Ave. from Dudley to Washington Sts., $229,700, all granite block; Columbus Ave. from Roxbury Crossing to Egleston Sq., asphalt and granite block, $148,000; Washington St. from Ashland to Lagrange Sts., $126,000; Huntington Ave. from Gainsboro St. to Brookline Twp. line, $136,000; Cambridge St. from Union Sq. to Washington St., $61,400; Washington St. from Market to Fanuel Sts., $62,200; Tremont St. (Brighton) from Oak Sq. to Newton Twp. line, $27,000; Chelsea St. from Maverick St. to Bay Sq., $80,000; Center St. (Jamaica Plain) from Columbus Ave. to Green St., $107,000; Blue Hill Ave. and Washington St. from Grove Hall to Mattapan, $282,000, all asphalt; Columbus Ave. from Egleston Sq. to Walnut Ave., macadam, $24,000. B. F. Bates, asst. engr.

Mass., Fall River—City soon receives bids paving Hope, Fountain, William, Tecumseh, Snell, Wade, Dover and Forest Sts., macadam; also Bay and Rodman Sts., Hassam pavement.

R. I., Cranston (Providence P. O.)—City receives bids in May paving Broad and Cranston Sts., asphaltic macadam. About $40,000. D. W. Waterman, city clk.

N. Y., Brooklyn—E. Riegelmann, boro. pres., rejected bids grading, curbing and laying sidewalks on 86th St. from 21st to 22nd Aves. Noted Mar. 13.

N. Y., Cohoes—City plans to issue $14,167 bonds to pave Jay and Factory Sts. and alter Newark St.; also build sewer in alley between Worth St. and Central Terrace. E. Hayes, city engr.

N. Y., Depew—Village had plans prepared paving 4000 lin.ft. Olmstead Ave., 24 and 36 ft. wide; 1600 lin.ft. Burlington Ave., 36 ft. wide; 2000 lin.ft. Terrace Blvd., 36 ft. wide; 800 lin.ft. Penora St., 30 ft. wide; 600 lin.ft. St. Marys St., 24 ft. wide; 6 and 8 in. concrete pavement and sandstone curbing. Village authorized $160,000 bond issue for project. A. Utecht, pres. village bd.

N. Y., Ogdensburg—City having estimates made and plans prepared for paving Paterson and North Water Sts. About $18,000. G. A. Tate, city engr.

N. Y., Oneida—Town soon receives bids paving and installing storm sewers in Central Ave. from West to Weaver Sts.; Lenox Ave. from Nicholas Vibbert property to west corporation line; James St. from New York Central R. R. to Elm Street.; Broad St. from Lenox Ave. to New York Central R. R.; Linden St., total length and Pleasant Ave. from Spring to Maple Sts. About $26,000. J. M. Hutton, city engr.

N. Y., Rochester—City soon receives bids paving South Goodman St. between Park and Monroe Aves., asphalt; cost $35,000; also rebuilding sewer in same district. A. C. Poole, city engr.

N. Y., Sloan (Buffalo P. O.)—Village had plans prepared paving Halstead Ave., Lovejoy and Gifford Sts., involving 15,000 sq.yd. concrete, 11,560 lin.ft. stone curbing and 4450 cu.yd. excav. G. C. Diehl, Ellicott Sq., Buffalo, engr.

N. Y., Utica—City having plans prepared paving with asphalt Conkling Ave. and St. Vincent St. from Arthur to James Sts.; James St. from Brinckerhoff Ave. to Mohawk St. and Van Vorst St. from Holland to Bradford Aves. J. Kemper, city engr.

N. J., East Orange—Town plans to improve Ridgewood Rd., bitulithic pavement on present Telford pavement, also widen South Clinton St. from 45-60 ft. W. D. Willigerod, town engr.

N. J., Mays Landing—Bd. Freeholders Atlantic Co. plans to pave with concrete White Horse Pike (main road to Atlantic City). About $60,000.

N. J., North Bergen—City rejected bid paving 23rd St. from Hudson Blvd. to New Durham Ave., with asphalt block. New bids will be received. Noted Apr. 3.

N. J., North Bergen—Town plans to improve Grand Ave. with granite block. About $15,000. A. Brady, town clk.

N. J., Nutley (Newark P. O.)—Bd. Freeholders, Essex Co., (Newark) soon receives bids paving 1700 ft. Avondale Rd. with granite block and bituminous concrete. About $28,723. F. A. Reimer, co. engr.

N. J., Nutley (Newark P. O.)—Bd. Supervs. Essex Co., (Newark) soon receives bids paving 9450 ft. Center St. with granite block and bituminous concrete. F. Reimer, co. engr.

Pa., Farrell—City election Apr. 29 to vote on $212,000 bonds to improve various streets.

Pa., Pittsburgh—City soon lets contract grading, paving and curbing Warrington Ave. from Montooth St. to West Liberty Ave.; Hampshire Ave. from Bway. to Napoleon St.; Tonopah Ave. from Belasco St. to Bway.; Realty Ave. from Crosby St. to Bway.; Creedmore Ave. from Brookline Blvd. to Freedom St.; Oakridge Ave. from Chelton Ave. to Creedmore Ave.; Stevenson St. from Bluff St. to end of present pavement; also repairing flooring of Radcliffe St. bridge. T. Reed, City County Bldg., engr.

Pa., Pittsburgh—J. P. Moore, co. controller, Allegheny Co., receives bids about May 1 building 4000 ft. Library Rd., Baldwin Twp., from Nobles Lane to village of Fairhaven, 24 ft. wide. R. V. Warren, co. engr.

Md., Cumberland—Comrs. Cumberland Co. receive bids about Apr. 29, building 4½ mi. concrete road extending out of Amcelle (suburb of Cumberland) 16 ft. wide, 3 ft. dirt shoulders, 8 in. thick in center and 6 in. thick on sides. About $230,000. State Rds. Comn. Baltimore, will appropriate $115,000 toward cost. J. N. Mackall, 601 Garrett Bldg., Baltimore, engr.

Md., Frederick—Frederick Co. having plans prepared by J. N. Mackall, engr., c/o State Rds. Comn., 601 Garrett Bldg., Baltimore, rebuilding 5½ mi. Buckeyestown Pike, 15 ft. wide, 3 ft. dirt shoulders. About $233,842. State will appropriate half of cost.

W. Va., Buckhannon—Comrs. Upshur Co. plan to regrade and surface 10 mi. Class A roads in Buckhannon Dist., 16 ft. wide. Work involves 94,000 sq.yd. concrete and 36,000 cu.yd. earth excav. About $250,000. W. C. West, co. engr.

W. Va., Clarksburg—Comrs. Harrison Co. soon let contract building 1 mi. Mt. Clare Rd., vitr. brick; 1¾ mi. Fairmont & Clarksburg Pike, from Hepzibath to Ziesing; 1¼ mi. Weston Rd. at Loneberry tunnel; 2 mi. Fairmont & Clarksburg Pike from Cove to Hepzibah; 2¼ mi. Wolf Summit Rd. from Wolf Summit to Ten Mile bridge; 2 mi. Johnson Fork Rd., Wilsonburg towards Wallace, vitr. brick. G. M. Harbert, Clarksburg, engr.

Streets and Roads (Continued)

W. Va., Keyser — Mineral Co. election Apr. 19, to vote on $137,000 bonds to build roads in Elk Dist. E. C. Smith, Piedmont, engr.

S. C., Sumter—Sumter Co. and Highway Comn. plan to build roads also hard surfaced highway from Sumter to Mayesville.

Fla., Pensacola—Escambia Co. plans to build concrete and brick highway from Pensacola to Flomaton, 9 ft. wide, sand clay filling. About $100,000. Federal Government will appropriate $50,000 toward cost.

Ala., Anniston—Calhoun Co. Comrs. plan to build highway from Camp McClellan to Jackson. Federal Government will appropriate between $20,000 and $50,000 toward project.

O., Akron—City having plans prepared paving and curbing East Ave. from Wooster Ave. to South Maple St. About $100,000. E. A. Kimmbler, Delaware Bldg., engr.

O., Columbus—Comrs. Franklin Co. plan to grade and pave with brick, 4.28 mi. Harbor Rd., 20 ft. wide.

O., Dayton—City plans to pave North Western Ave., East 3rd, Springfield and Germantown Sts. About $200,000. F. O. Eichelberger, City Bldg., engr.

O., Martins Ferry—City receives bids in May paving and building culverts 1 mi. Grand, Park, 8th and 9th Sts., Martins Ferry and Colerain Pike, vitr. brick, 30 ft. wide. About $25,000. C. Lash, Martins Ferry, engr.

O., Toledo—City plans to issue $70,000 bonds to build and repair sidewalks. H. C. McClure, Valentine Bldg., engr.

O., Toledo—City plans to pave, grade, drain, and curb 1550 ft. Nevada St. from Spring Grove Ave. to city line, 26 ft. wide. About $20,000. H. C. McClure, 229 Valentine Bldg., engr.

O., Toledo—City had plans prepared for paving, grading, and draining 1078 ft. Ambia St. from Detroit Ave. to New York Central R.R., 24 ft. wide, involving 2200 lin.ft. curbing and 1697 cu.yd. earth excav., cost $12,516; 2058 ft. Vermaas Ave. from Philips Ave. to Cornelia Dr., 22 ft. wide, 6671 cu.yd. earth excav., $20,584; 1262 ft. Berkley Dr. from Sylvania to Berdan Aves., 24 ft. wide, 1859 cu.yd. earth excav., $15,829. H. C. McClure, 229 Valentine Bldg., Toledo, engr.

O., Yorkville—City receives bids about June 1, paving ¼ mi. streets, with vitr. brick, 30 ft. wide. About $22,000. C. Rothermond, Martins Ferry, engr.

Mich., Detroit—City soon receives bids paving with asphaltic concrete on 6 in. concrete foundation, Berea, Medina or other curbing, Harper Ave., Sect. 1, from Hurlbut to Montclair Aves., 40 ft. wide less 18 ft. track space, cost $22,935; Greeley Ave. from Wellington to Holbrook Aves., 26 ft. wide, $20,600; Olivet Ave. from Springwells Ave. to Michigan Central R. R., 26 ft. wide, $12,079; Marquette Ave. from Wabash to Lawton Aves., 26 ft. wide, $39,372; Witt Ave. from Lawndale to Elsmere Aves., 26 ft. wide, $12,408; Lakewood Blvd. from Kercheval to Waterloo Aves., 1 roadway 30 ft. wide and 2 roadways each 20 ft. wide, $12,596; Goodwin Ave. from Holbrook to Owan Aves., 26 ft. wide, $9,200; Goodwin Ave. from Caniff Ave. to city limits, 26 ft. wide, $10,152; Woodlawn Ave. from Oakland Ave. to Detroit, Grand Haven & Milwaukee Ry., $25,300; Distel Ave. from Fort St. to Olivet Ave., 26 ft. wide, $10,152; "T" alley bounded by 2nd, Cass, Canfield and Prestis Aves., 20 ft. wide with 1 course concrete, $5880; alley bounded by Trumbukl, Lincoln, Canfield and Lysander Aves, 18 ft. wide, with 1 course concrete, $1550; Harper Ave., Sect. 2, from Montclair to Connors Aves., 30 ft. wide, cost $32,916; Longworth Ave. from Springwells to Elsmere Aves., 26 ft. wide, $35,006; Carter Ave. from Dexter Blvd. to Quincy Ave., 26 ft. wide, $15,548; Casper Ave. from Ferndale to Dix Aves., 26 ft. wide, $28,336; Norman Ave. frm Ferndale to Woodmere Aves., 26 ft. wide, $28,428; Pasadena Ave. from Herman Ave. to 12th St., 24 ft., $15,886; Philadelphia Ave. from Linwood to Lawton Aves., 26 ft. wide, $11,327; Solvay Ave. from West Jefferson Ave. to Wabash R. R., 26 ft. wide, $29,762; Solvay Ave. from Fort St. to Michigan Central R. R., 26 ft. wide, $27,462; Webb Ave. from Oakman Blvd. to Oakman and Stoll's subdivision, 1 roadway 26 ft. wide, 2 roadways each 18 ft. wide, $27,072. C. W. Hubbell, city engr. Noted Mar. 27.

Ill., Chicago—Cook Co. receives bids about May 1, paving 27,960 ft. River Rd. south of Desplaines Village, 18 ft. wide, involving 55,990 sq.yd. cement concrete or bituminous concrete on concrete base, 24,543 cu.yd. earth excav. and 601 cu.yd. concrete in culverts and bridges. About $188,000 for bituminous concrete and $155,000 for cement concrete. B. D. Barker, co. supt. highways.

Ill., Lincoln—Logan Co. having plans prepared for 2½ mi. earthwork and culverts on Lincoln Peoria Rd. and 3 mi. on Hartsburg Rd., 26 ft. roadway. About $12,000. L. H. Holland, co. supt. highways.

Ill., Petersburg—Menard Co. voted $55,000 bonds to build 8 mi. Springfield-Peoria Rd., 16 ft. wide, cement concrete. C. M. Buckley, co. supt. highways.

Wisconsin—State Highway Comn., Capitol, Madison, soon lets contract paving and grading 1.6 mi. Cedar Creek Rd., 16 ft. wide, involving 15,000 sq. yd. 8 in. concrete and 3000 cu. yd. grading. About $35,000.

Wis., De Pere—City plans to surface with concrete 1 mi. Oneida and Ashwabenon Rds., 16 ft. wide. About $15,000.

Wis., Green Bay — City plans to pave 5,000 ft. Woodlawn and North Maple Aves., Pine and Kellogg Sts., 30 ft. wide. W. Reed, city engr.

Wis., Racine—Bd. Pub. Wks. soon lets contract improving Grange Ave., involving 7750 sq.yd. paving and 3975 lin.ft. curbing and guttering, also Osborne Blvd., 8970 sq. yd. paving, 3179 lin.ft. curbing and guttering and 1400 cu.yd. excav. Bids will be received on either brick, sheet asphalt, asphatic concrete or rein. con. Noted Feb. 20.

Wis., Sheboygan—Highway Comn. Sheboygan Co. soon lets contract grading, curbing and paving with concrete Green Bay Rd., 20 ft. wide, Cedar Grove Village, cost, $10,000; Waldo-Cascade Rd., 20 ft. wide, Lyndon Twp., $11,000; Upper Falls Rd., Kohler Village, 20 ft. wide, $12,000. G Ubbelahde, Sheboygan, engr.

Ia., Clarion—City plans to pave 5 mi. streets, vitr. brick, asphalt or bituminous concrete. J. Brown, clk.

Ia., Davenport—City soon receives bids grading Telegraph Rd. from 3rd to Mary Sts., Hilltop Ave. from 10th to 20th Sts., Hickory St. from Fairview Ave. to 2nd St. and 1st St. from Concord to Hickory Sts. R. E. Sowlstowsky, city engr.

Ia., Dubuque—City soon receives bids paving, curbing and guttering 35 blocks of streets, involving 35,000 sq.yd. vitr. brick, wood block or asphalt on 4 in. concrete base. About $125,000. J. Stuber, clk.

Ia., Emmetsburg—City soon receives bids paving, curbing and guttering Bway, Pearl, Grand, Union, 14th, 17th, 19th, 5th, 11th, Jefferson and State Sts., vitr. brick or bituminous concrete. About $200,000. T. E. Rudledge, city clk.

Ia., Harlan—City soon receives bids paving, curbing and guttering 50 blocks, vitr. brick or concrete. About $200,000. F. Fenton, city clk.

Ia., Reinbeck—Town Council plans to pave, curb and gutter 30 blocks, asphalt, concrete or bituminous concrete. F. G. Thorne, 317 Haines Blk., Clinton, engr.

Ia., Webster City—Comrs. Hamilton Co. rejected bids received Mar. 26, gravel surfacing 4½ mi. road from Williams to Dows, 1¾ mi. from Williams to Wilke, 3¾ mi. from Ellsworth to Williams, 5 mi. from Webster City to Stanhope, 3¾ mi. from Webster City to Strattford and 3 mi. from Ellsworth to Strong City. About $40,000. Work will be readvertised in May. O. O. Howd, co engr.

Minn., Blue Earth—Comrs. Faribault Co. plan to grade and gravel 20 mi. Federal Aid Rd., 24 ft. wide. About $80,000. R. J. Short, Blue Earth, engr.

Minn., Moorhead—Comrs. Clay Co. plan to pave 10 mi. State Aid Rd., 18 ft. wide, involving 105 sq.yd. paving and 20,000 cu. yd. excav. About $240,000. E. Martinson, Moorhead, engr.

Minn., St. Paul—Comrs. Ramsey Co. received no bids grading and gravelling 1¼ mi. Anoka Co. Rd. to Centerville, 24 ft. wide. About $10,000. Work will be readvertised. J. H. Armstrong, 855 Hague St., engr. Noted Apr. 3.

Kan., Leavenworth — Leavenworth Co. (Leavenworth) and Wyandotte Co. (Kansas City) had plans and specifications prepared for surfacing with concrete 8 mi. Fort-to-Fort Highway, 18 ft. wide. O. K. Williamson, Kansas City, co. highway engr.

Neb., Madison—City having plans prepared paving 7200 ft., Madison Pearl and 3rd Sts., 24-56 ft. wide, involving 29,000 sq.yd. vitr. brick on 5 in. concrete base, 10,000 lin.ft. concrete curb and 6000 cu.yd. earth excav. About $135,000. W. D. J. Steckelberg, city engr.

North Dakota—State Highway Comrs., Capitol, Bismarck, rejected bids building 4½ mi. State Aid Project No. 0582, Bottineau Co. Noted Feb. 13.

N. D., Lakota—Comrs. Nelson Co. plan to build Federal-aid roads. About $150,000. W. H. Robinson, c/o State Highway Comn., Bismarck, engr.

Mo., Kansas City—City having preliminary plans prepared building boulevard and parkway from Armour-Swift Burlington bridge to Admiral Blvd. and 6th St.—Independence Ave. trafficway. Plans include 75 ft. roadway from 3rd, Locust and Cherry Sts. to Admiral Blvd. and diagonal trafficway from Independence and Locust Sts. to 6th and Grand Sts. R. W. Waddell, city engr.

Mo., Kansas City—City plans to widen Baltimore Ave. from 14th St. to Southwest Blvd. and 7th St. Bonds for $81,418 sold for project. R. W. Waddell, city engr.

Arkansas—State Highway Dept., Little Rock, plans to pave roads in Faulkner Co. as follows: 23 mi. in Conway-Damascus Rd. Impvt. Dist., cost $250,000; 17 mi. in Conway-Vilonia Rd. Impvt. Dist., $175,000; 2 mi. in Reeves School Rd. Impvt. Dist., 15 ft. wide, $20,000; 15 mi in Conway-Palorm Rd. Impvt. Dist., $150,000; all bituminous macadam or concrete. W. J. Parkes, Citizens Bank Bldg., Pine Bluff, engr.

Arkansas—State Highway Dept., Little Rock, plans to grade, drain and gravel surface, 60 mi. road in Ouachita and Caddo Valley Rd. Impvt. Dist., Montgomery Co. About $300,000. McGill & Carter, Little Rock, engrs.

Tex., Stevensville—See "Waterworks."

Okla., Oklahoma—State Legislature appropriated $75,000 to pave and build sewers in various streets. Benham Eng. Co., 1300 Colcord Bldg., engrs.

Idaho., Arco—Butte Co. election Apr. 19, to vote on $50,000 bonds to build roads and bridges. R. R. Duke, co. aud.

Idaho, Buhl—City election soon to vote on $200,000 bonds to pave 20 blocks with bitulithic and 2 mi. streets with macadam. McGee & Baird, Caldwell, engrs.

Idaho, Genesee—City voted $170,000 bonds to pave various streets, also to build link in state highway between Lewiston and Moscow, via Genesee.

Wash., Aberdeen—City plans to pave 40 blocks and build sidewalks. About $150,000.

Wash., Cheney—City soon receives bids paving 37 blocks. N. P. Rolfe, mayor.

Oregon—State Highway Comn. Portland, having surveys made paving 5 mi. road from Eugene to underground crossing of Southern Pacific R. R. track, 16 ft. wide, with 4 ft. macadam on each side; also for overhead crossing, 4 mi. south, at McVeigh Point; 8 mi. Tillamook Highway between Bellevue and McMinnville. County to appropriate $2000 per mile toward hard-surfacing; farmers to furnish grading gratis; also paving 15.7 mi. road from Eugene to Florence; 24 mi. from Pilot Rock to Prairie City; 48 mi. from Prairie City to Unity; road from Dufur to Madras; Eugene to Goshen; 5 mi. from Rickreall to Monmouth; Roseburg to Wilbur except Winchester Hill; 7 mi. road from Amity south to Holmes Gap R. R. crossing; 2 mi. Pacific Highway from Monmouth to Independence; road from The Dalles to Dufur; Post Rd., county and government cooperating; also grading 18 mi. road from Camas Valley to Coquille, Douglas Co. H. Munn, engr.

Streets and Roads (Continued)

Oregon—State Highway Comn., Portland, having plans prepared paving 20 mi. Deer-Island-Clatskanie Rd., Columbia Co.; 20 mi. Hood River-Multnomah Rd., 3 mi. Dalles-Chenowith Rd.; 11.7 mi. Hillsboro-Gaston Rd., Washington Co., grading and paving Oregon City Rd. to Multnomah Co. line, by way of Oswego; 6 mi. Canby-Aurora Rd., 14 mi. Scappoose-Deer Island Rd. H. Munn, engr.

Ore., Albany—Linn Co. plans election in June to vote on $1,000,000 bonds to build roads.

Ore., Astoria — City plans to establish grades from 15th St., 307 ft. above grade base to 16th St., 292 ft. above; Niagara St., 294 ft. above to James St. 285 ft. above; James St. from 16th St. to 60 ft. east, at 283-285 ft. above grade base; improve 49th St. from Birch to Ash Sts., 10th St. from Exchange to Franklin Sts., 9th St. from Harrison to Jerome Sts.; establish sewerage and drainage system in Taylors Ave.; also hardsurface and build retaining wall on 10th St. from Bond St. to waterfront, 30 ft. wide. G. T. McClean, city engr.

Ore., Oregon City—Clackamas Co. plans to pave 14th and Washington Sts. to connect with pavement extending to Multnomah Co. line; also unpaved portions through Gladstone Twp. and River Rd. L. A. Morris, chn. rd. com.

Ore., Salem—Marion Co. plans to grade, scarify and hardsurface Liberty Rd., from ¾ mi. south of city limits of Commercial St. Grading will be done by day labor. W. J. Culver, co. rd. master.

Ore., Tillamook City—Tillamook Co. plans election to vote on $430,000 bonds to improve roads.

Ore., Toledo—Lincoln Co. election June 8, to vote on $200,000 bonds to hardsurface road from Newport to Benton Co. line, and from Toledo to Siletz. State Highway Comn., Capitol, Salem, will appropriate $250,000 toward cost.

Ore., Vale—Malheur Co. plans election to vote on $200,000 bonds to build roads.

Cal., Sacramento—City plans to pave following alleys with 4 in. asphaltic concrete: 8400 sq.ft. from 9th to 10th Sts. between O and P Sts.; 6400 sq.ft. from 15th to 16th Sts., between J and K Sts.; 6290 sq.ft. from 11th to 12th Sts. between I and J Sts.; also pave following streets with 1½ in. asphalt surface on 4 in. concrete base: 2800 lin.ft. 29th St. from R to Y Sts., involving 124,288 sq.ft. paving, 4569 lin.ft. curbing and guttering and 21,718 sq.ft. cement walk; 400 ft. 33rd St. from J St. to point north, 11,552 sq.ft. paving; 2300 lin. ft. Sacramento Ave. from 5th to 8th Aves., 72,860 sq.ft. paving and 3990 lin.ft. curbing and guttering; 2500 lin.ft. 21st St. from Y St. to Marshall Way, 100,000 sq.ft. paving. T. C. Miller, city engr.

Cal., Santa Barbara—City plans to improve 6 mi. San Andres, Mission, Montecito, Padre, Los Olivos, Carpenteria Sts., Modoc Rd. and around City Blvd. Work includes grading, concrete and asphalt paving, curbing, guttering, sidewalks and sewers. A. B. Cook, city engr.

N. S., Bridgewater—City having plans prepared by W. T. Rothey, engr., Bridgewater, building 30 mi. road. About $60,000.

N. S., Kentville—City having plans prepared building 50 mi. roads. About $90,000. J. Carrol, clk.

Que., Drummondville—Town having plans prepared paving and improving streets. About $20,000. J. A. Montplasir, mayor.

Ont., Kingston — Suburban Rd. Area Comn. soon receives bids building new roads leading to city. About $13,000. J. W. Bradshaw, clk.

Ont., L'Original — Village Council soon receives bids paving streets with bituminous macadam. About $16,000. V. Belanger, L'Original, engr.

BIDS DESIRED

Massachusetts—Until Apr. 22, by State Highway Comn., Boston, building 16,500 ft. bituminous macadam road, 18-24 ft. wide in Saugus Twp. About $75,000. A. W. Dean, State House, Boston, engr.

Connecticut—Until Apr. 25, by C. J. Bennett, comr. state highway, Capitol, Hartford, building 5200 ft. Killin-Worth Rd., trap rock macadam, Haddam Twp.; 3270 ft. Deming St., bituminous macadam, Manchester Twp.; 4238 ft. Westfield Rd., bituminous macadam, Meriden Twp.; 6979 ft. Stanley Quarter Rd., concrete, Topeka, Warrenite or asphalt, New Britain, Newington and Farmington Twps.; 3650 ft. Black Hall-Niantic Rd., gravel, Old Lyme Twp.; 34,518 ft. Lakeville-Sharon Rd., 10 in. gravel or gravel on slag base, Salisbury and Sharon Twps.; 7258 ft. Thomaston Ave., concrete or Topeka on concrete base, Thomaston and Waterbury Twps.; advertised in this issue.

N. Y., Brooklyn—Until Apr. 23, by E. R. Riegelmann, boro. pres., regulating and repaving with permanent asphalt on 6 in. concrete base, Manhattan Ave. from Grand to Cook Sts.; Ave. O from Coney Island Ave. to East 13th St.; Sackett St. from 3rd to 4th Aves.; 15th Ave. from 47th to 54th Sts., a strip 24 ft. wide; with permanent Grade 1 granite on 6 in. concrete base, Van Brunt St. from Harrison to Irving Sts.; regulating and grading 86th St. from Bay 37th St. to Stillwell Ave.

N. Y., Elmira—Until Apr. 28, by L. I. Andrews, city clk., grading, curbing and paving 2800 sq.yd. Woodlawn Ave.; 2400 sq.yd. East and West 1st St.; 14,900 sq.yd. Walnut St.; advertised in this issue.

N. Y., Long Island City—Until Apr. 21, by M. E. Connolly, pres. Queens Boro., regulating and repaving with improved granite blocks on 6 in. concrete foundation, 4th St. from Vernon to Jackson Aves., 1st Ward; with sheet asphalt on 6 in. concrete foundation, East Ave. from Borden to Hunterspoint Aves., 1st Ward; Hamilton St. from Webster Ave. N., to Vernon Ave., 1st Ward; 1st Ave. from Graham Ave. to Bway, 1st Ward; with sheet asphalt on concrete foundation between curbs and outside rails of Jackson Ave. from Thomson Ave. to Bridge Plaza S., Jackson Ave. from 2nd Ave. to Old Newtown Rd., 1st Ward; with improved granite block on concrete base between curbs and outside rails, Jackson Ave. from Bridge Plaza S., to 2nd Ave., 1st Ward.

N. Y., New York—Until Apr. 22, by H. Bruckner, pres. Bronx Boro., regulating, grading, setting curbstones, flagging sidewalks, laying crosswalks, building approaches and fences in Corlear Ave. from 230th to 240th Sts.; repaving with granite blocks on concrete foundation Morris Park Ave. from East Tremont to Hunt Aves.; with sheet asphalt on concrete foundation, Bathgate Ave. from 3rd Ave. to East 188th St.; Intervale Ave. from Freeman to Chisholm Sts.; Clay Ave. from East 166th to East 167th Sts.; East 163rd St. from Teller to Morris Aves.; bituminous concrete on cement concrete foundation, Victor St. from Morris Park to Van Nest Aves.; Van Nest Ave. from Victor St. to White Plains Rd.; Walton Ave. from Fordham Rd. to Burnside Ave.; East 177th St. from Tremont to Rosedale Aves.; East 178th St. from Park to 3rd Aves.

N. Y., New York—Until Apr. 24, by F. L. Dowling, pres. Manhattan Boro., regulating and repaving, with sheet asphalt on concrete foundation, 10th Ave., from 58th to 60th Sts.; 43rd St. from 3rd to Lexington Aves.; with granite block on concrete foundation 7th Ave. from 30th to 42nd Sts.; Greenwich St. from Battery Pl. to Vesey St.; re-regulating, repairing and regrading with granite block on concrete foundation 4th Ave. from west side curb rail 32nd St. to 34th Sts.

New Jersey—Until Apr. 30, by State Highway Comn., Broad St., Bank Bldg., Trenton, improving State Highway Route No. 5, Sect. 1 B, from Morris Plains to Morristown, involving 11,500 sq.yd. concrete surface. A. L. Grover, ch. clk.; advertised in this issue.

N. J., Freehold—Until Apr. 30, by Bd. Freeholders Monmouth Co., building 2nd Sect. Matawan-Freehold Rd., Marlboro and Freehold Twps., involving 36,248 sq.yd. rein.-con. surface. W. M. Bergen, dir.; advertised in this issue.

N. J., Jersey City—Until Apr. 24, by Bd. Freeholders Hudson Co., resurfacing and improving Tonnelle Ave. from here to Secaucus, involving 17,000 sq.yd. bituminous macadam.

N. J., North Bergen—Until Apr. 22, by Town Council, improving Tower Hill Ave. from Hudson Blvd. to New Durham Ave., granite block. About $10,000.

N. J., Trenton—Until Apr. 22, by Bd. Freeholders, Mercer Co., furnishing labor, material, etc., for (1) 4⁶⁰ mi. road, southern section of county, south of Pennsylvania R. R., involving 95,960 gal. tar and 3695 ton covering material; (2) 24 mi. road, northern section of county, north of Pennsylvania R. R., involving 51,030 gal. tar, 2005 tons covering material; (3) 43 mi. road in county lying north of Pennsylvania R. R. or adjacent thereto, involving 121,773 gal. asphaltic oil and 4195 ton covering material. Separate bids will be received on each of above divisions. H. F. Harris, co. engr.; advertised in this issue.

N. J., Trenton—Until Apr. 22, by Bd. Freeholders Mercer Co., furnishing labor and material and applying 95,960 gal. surface dressing of tar to 40 mi. road in southern section of county; 51,030 gal. to 24 mi. and 121,773 gal. surface dressing of asphaltic oil to 43 mi. H. F. Harris, 759 Stuyvesant Ave., engr.

N. J., West Orange—Until Apr. 22, by Bd. Pub. Wks., widening Eagle Rock Ave. from Harrison to Washington Sts. and Washington St. in front of property of Bd. Educ. C. A. Winston, Town Hall, engr.

Pa., Ardmore—Until Apr. 22, by Comrs. Lower Merion Twp., surface treating 94,000 sq.yd. road in Lower Merion Twp., tarvia or asphalt. Bids requested for using ½ gal. per sq.yd., ⅓ gal. per sq.yd. and ¼ gal. per sq.yd. G. C. Anderson, secy.

Pa., Scranton—Until Apr. 28, by C. P. Savage, co. controller Lackawanna Co., repairing county road running from Luzerne Co. line through Old Forge, Taylor, Dickson City, Blakely, Archbald, Jermyn and Mayfield Boroughs, etc.; advertised in this issue.

Pa., Waynesburg—Until Apr. 22, by Comrs. Greene Co., rebuilding 4765.5 lin. ft. rein. con. pavement, 16 ft. wide, in Franklin Twp.

Delaware—Until Apr. 30, by State Highway Dept., Dover, building highways in Kent and Sussex Counties. Work involves 4.5 mi. road, involving 4 acres clearing and grubbing, 27,000 cu.yd. grading, 250 cu.yd. concrete masonry, 15,000 lb. reinforcement, 332 lin.ft. 15-24 in. rein.-con. pipe, 40 tons stone for macadam, 8600 cu.yd. cement concrete roadway and 130 joints, Contr. No. 10; 4 mi. road., involving 1.74 acres clearing and grubbing, 19,500 cu.yd. grading, 240 cu.yd. concrete masonry, 10,000 lb. reinforcement, 616 lin.ft. 15-36 in rein.-con. pipe, 50 tons stone for macadam, 7655 cu.yd. cement concrete roadway and 125 joints, Contr. No. 11; 5.97 mi. road, involving 11.6 acres clearing and grubbing, 26,273 cu.yd. grading, 350 cu.yd. concrete masonry, 10,000 lb. reinforcement, 625 lin.ft. 15-24 in. rein.-con. pipe, 50 tons stone for macadam, 11,400 cu.yd. cement concrete roadway, 200 joints, Contr. No. 12. C. M. Upham, ch. engr.

Maryland—Until Apr. 25, by State Rd. Comn., 601 Garrett Bldg., Baltimore, building section of Washington Blvd. from Laurel to Hyattsville, Prince George Co. Work involves 0.5 mi. concrete roadway, 20 ft. wide, and 11.14 mi. 3 ft. concrete shoulders on each side of present roadway, Contr. WB-Z. F. H. Zouck, chn.; advertised in this issue.

Maryland—Until Apr. 29, by State Rds. Comn., 601 Garrett Bldg., Baltimore, building 2.33 mi. concrete road from Corrigansville to Maryland-Pennsylvania State Line at Ellerslie, Allegany Co., Contr. A-14; 3.65 mi. concrete road through Greensboro, Caroline Co., Contr. Co-19; 2.12 mi. concrete road from Oakland toward Hutton via Crellin, Garrett Co., Contr. G-13; 1.63 mi. Defense Highway from Bladensburg toward Lanham, Contr. P-16, and 1.67 mi. concrete road from Largo to Western Branch on Halls Station Rd., Contr. P-17, Prince Georges Co.; 1.53 mi. concrete road from end of Quantico State Aid Rd. toward Catch Penny, Wicomico Co., Contr. W1-13; F. H. Zouck, chn.; advertised in this issue.

Md., Baltimore—Until Apr. 23, by Bd. Awards, grading and paving with 6 in. cement concrete 1.2 mi. private alleys, 3-12 ft. wide, listed as Contr. Nos. 39 and 44 G. F. Weighardt, city engr.

Streets and Roads (Continued)

W. Va., Fayetteville—Until May 5, by Comrs. Fayette Co., grading 10 mi. road, steam shovel and team work. Work will be let in 2 sections of 5 mi. each. 20,000 cu.yd. excav. on each section. J. K. McGrath, co. engr.; advertised in this issue.

W. Va., Pennsboro—Until Apr. 28, by V. Eubank, city clk., grading, curbing and paving with concrete Clayton St. from Masonic St. northward to Baltimore & Ohio R. R.; also Davis St. from Clayton St. westward to Baltimore & Ohio R. R.

W. Va., Weston—Until Apr. 26, by L. Troxell, co. clk. Lewis Co., improving 1¼ mi. Weston and Buckhannon Turnpike.

N. C., Durham—Until May 6, by Comrs. Durham Co., improving North Carolina Central Highway, involving 78,900 sq.yd. brick, asphalt, cement, concrete, bituminous concrete or other approved pavement, combination cement concrete header curbing and base course required except with cement concrete construction, 4000 cu.yd. old macadam in present surface removed and replaced along edges of new pavement, 56.92 cu.yd. Class A concrete culverts, 4774 lbs. reinforcing steel in concrete culverts, 75.66 cu.yd. Class B concrete pipe headwalls, 612.5 lin.ft. 15 in., 152.5 lin.ft. 18 in. and 152.5 lin.ft. 24 in. standard vitr. pipe. A. L. Carlton, chn.; advertised in this issue.

Ga., Augusta—Until May 1, by W. L. Martin, city clk., for 55,000 sq.yd. pavement on Walton Way from 15th St. to Monte Sano Ave. Bids will be received on asphaltic concrete and sheet asphalt on 4 in. concrete foundation, monolithic brick, or 6 in. concrete. W. H. Wise, city engr.; advertised in this issue.

Miss., Clarksdale—Until Apr. 30, by Bd. Supervs. Coahoma Co., surfacing 10 mi. roads. Work involves 85,532 sq.yd. asphaltic concrete on concrete or gravel base and 79,375 sq.yd. concrete. L. W. Mashburn, Clarksdale, engr.

Ohio—Until Apr. 30, by State Highway Comn., Columbus, building following roads:

Ashland Co., Sect. "B," Ashland-Wooster Rd., 3.8 mi., grading, constructing bridges and culverts and paving with monolithic brick or concrete, cost $125,331.

Clinton Co., Sect. "O," Cincinnati-Zanesville Rd., 2.37 mi., grading, constructing bridges and culverts and paving with waterbound macadam, $33,407.

Sect. "P and Q," Cincinnati-Zanesville Rd., grading, constructing bridges and culverts and paving with waterbound macadam, $125,258.

Delaware Co., Sect. "B," Delaware-Marysville Rd., 5.02 mi., grading, constructing bridges and culverts and paving with waterbound macadam, $106,679.

Sect. "A-2," Delaware-Marysville Rd., 2.85 mi., grading, constructing bridges and culverts and paving with waterbound macadam or bituminous macadam, $61,017.

Fairfield Co., Sect. "F," Lancaster-Newark Rd., 2.05 mi., grading, constructing bridges and culverts and paving with waterbound macadam, $44,615.

Holmes Co., Sect. "H-1," Millersburg-Canal Dover Rd., 2.5 mi., grading, constructing bridges and culverts, $22,415.

Knox Co., Sect. "A," Mt. Vernon-Newark Rd., 3.79 mi., grading, constructing bridges and culverts and paving with semi-monolithic brick, $166,481.

Marion Co., Sect. "F," Marion-Kenton Rd., 5.36 mi., grading, constructing bridges and culverts and paving with rein.-con. or bituminous macadam, $170,654.

Morrow Co., Sect. "E and F," Mansfield-Mt. Gilead Rd., 4.10 mi., grading, constructing bridges and culverts and paving with plain concrete, $113,032.

Ottawa Co., Sect. "E-2," Oak Harbor-Genoa Rd., 1.59 mi., grading, constructing bridges and culverts and paving with concrete, $50,396.

Stark Co., Sect. "A and B," Lincoln Highway, 8.04 mi., grading, constructing bridges and culverts and paving with brick, $366,525.

Tuscarawas Co., Sect. "O-1," Millersburg-Canal Dover Rd., 1.50 mi., grading, constructing bridges and culverts and paving with concrete, $41,686.

Sect. "O," Canal Dover-Wooster Rd., 2.52 mi., grading, constructing bridges and culverts and paving with brick or concrete, $96,661.

Union Co., Sect. "B-1," Marysville-Kenton Rd., 2.88 mi., grading, constructing bridges and culverts and paving with waterbound macadam, $46,608.

Vinton Co., Sect. "G-2," McArthur-Athens Rd., 1.06 mi., grading, constructing bridges and culverts and paving with concrete, $27,725.

Washington Co., Sect. "J-1," Marietta-Caldwell Rd., 3.027 mi., grading, constructing bridges and culverts and paving with plain concrete, $96,853.

Wyandot Co., Sect. "B," Tiffin-Upper Sandusky Rd., 1.66 mi., grading, constructing bridges and culverts and paving with asphaltic concrete, $61,762.

Lucas Co., Sect. "56 and 58," various roads, surface treating, tar covering, $11,694.

Lucas Co., Sect. "21, 51 and 56," various roads, surface treating, tar covering, $17,694.

Medina Co., Sect. "25," various roads, bituminous macadam treatment, $15,076.

Ind., Greenfield—Until May 5, by Comrs. Hancock Co. grading, draining and building waterbound macadam road in Buck Creek Twp. C. Boone, co. engr.

Mich., Ann Arbor—Until Apr. 29, by F. F. Rogers, state highway comr., at office of Bd. Pub. Rds., here, grading, draining and paving 2.5 mi. Federal Aid Project No. 34, 18 ft. wide, concrete or bituminous; .373 mi. extension to Federal Aid Project No. 16, 18 ft. wide, bituminous concrete or concrete.

Mich., Jackson—Until Apr. 24, by A. W. D Hall, city mgr., paving several streets, involving 21,775 sq.yd. brick, 40,000 sq.yd. asphaltic concrete, 46,300 lin.ft. combined curb and gutter and 16,000 cu.yd. excav.; W. B. Hodges, city engr.; advertised in this issue.

Ill., Chicago—Until Apr. 21, by Bd. Local Impvts., City Hall, paving Cornelia, Karlov, Kedvale, Keeler and Lowell Aves., Roscoe, Henderson, School and Melrose Sts., involving 6450 cu.yd. grading, 21,500 ft. concrete curbing, 29,800 sq.yd. asphalt on 6 in. concrete base, cost $94,500;

South Park Ave., 14,000 cu.yd. grading, 12,100 ft. concrete curbing, 25,900 sq.yd. paving with 8 in. crushed slag or limestone and 2½ in. crushed granite or trap rock, $87,000;

North Claremont, Oakley and Irving Sts., and Rosemont, Highland and Thome Aves., 8200 cu.yd. grading, 11,500 ft. concrete curbing, 18,200 sq.yd. paving with 8 in. crushed slag or limestone and 2½ in. crushed granite or traprock, $64,000;

Lawrence Ave., 13,600 sq.yd. paving creosoted wood-block on 6 in. concrete base, 6400 cu.yd. grading, $71,500;

Lafayette Ave., West 66th and West 68th Sts., 9700 ft. concrete curbing, 14,800 sq.yd. asphalt paving on 6 in. concrete base, $49,500;

South Chicago Ave., 4000 cu.yd. filling, 4390 ft. sandstone curbing, 10,780 sq.yd. vitr. brick on 6 in. concrete base, $39,000;

Archer Ave., 5200 cu.yd. grading, 6700 ft. concrete curbing, 1028 sq.yd. granite block on 6 in. concrete base, 11,220 sq.yd. vitr. brick on 6 in. concrete, $44,500;

Harrison St., 4600 cu.yd. grading, 5330 ft. concrete curbing, 8000 sq.yd. vitr. brick on 6 in. concrete base, $36,500;

Karlov Ave., 3000 cu.yd. grading, 5370 ft. concrete curbing, 8750 sq.yd. asphalt on 6 in. concrete base, $40,000.

Hayne Ave., 255 cu.yd. grading, 5165 ft. concrete curbing, 8570 sq.yd. asphalt on 6 in. concrete base, $26,000.

Keating St., 2400 cu.yd. grading, 5430 ft. concrete curbing, 7520 sq.yd. asphalt on 6 in. concrete base, $26,500;

Longwood Dr., 6400 cu.yd. grading, 5630 ft. concrete curbing, 9020 sq.yd. asphalt on 6 in. concrete, $35,500;

Devon Ave., 1200 cu.yd. grading, 2100 ft. concrete curbing, 280 sq.yd. granite block on 6 in. concrete base, 3080 sq.yd. vitr. brick on 6 in. concrete base, $17,500;

Kolin St., 1090 cu.yd. grading, 1810 ft. concrete curbing, 2810 sq.yd. asphalt on 6 in. concrete base, 6 brick catchbasins, $13,000;

Otto St., 1300 cu.yd. grading, 2280 f concrete curbing, 3800 sq.yd. asphalt o 6 in. concrete, $15,500;

Morgan St., 300 cu.yd. grading, 1400 ft. concrete curbing, 2360 sq.yd. asphalt on 6 in. concrete base, $9500;

Leavitt St., 800 cu.yd. grading, 740 ft. concrete curbing, 1100 sq.yd. paving with 8 in. crushed slag or limestone and 2½ in. crushed granite or traprock, $4500;

West 35th Pl., 1200 cu.yd. grading, 2350 ft. concrete curbing, 3680 sq.yd. asphalt on 6 in. concrete base, $13,000;

South Wabash Ave., 800 cu.yd. grading, 860 ft. concrete curbing, 1240 sq.yd. paving with 8 in. crushed slag or limestone and 2½ in. crushed granite or traprock, $5000;

Windsor Ave., 1200 cu.yd. grading, 2270 ft. concrete curbing, 3070 sq.yd. asphalt on 6 in. concrete base, $13,000;

West 18th St., 1100 cu.yd. grading, 3630 ft. concrete curb, 3100 sq.yd. vitr. brick on 6 in. concrete base, $12,500;

Alleys between Harrison and Flournoy Sts. and Spaulding and Homan Aves., 261 cu.yd. grading, 1198 ft. concrete curbing, 940 sq.yd. vitr. brick on 6 in. concrete base, $3777;

Van Buren and Congress Sts. and Washtenaw and California Aves., 600 cu.yd. grading, 2028 ft. concrete curbing, 1780 sq.yd. vitr. brick on 6 in. concrete base, $6100;

Alley between Blackhawk and Division Sts. and Holt and Dickson Aves., 1200 cu.yd. grading, 2690 ft. concrete curbing, 2330 sq.yd. vitr. brick on 6 in. concrete base, $10,457;

Alley between Wabausia and North Aves. and Kedzie and Sawyer Aves., 470 cu.yd. grading, 1590 cu.yd. concrete curbing, 1440 sq.yd. vitr. brick on 6 in. concrete base, $4900;

Alley between Montrose and Cullom Aves., Ashland Ave. and Paulina St., involving 580 cu.yd. grading, 1180 ft. concrete curbing, 1180 sq.yd. vitr. brick on 6 in. concrete base, $5000. C. D. Hill, ch. engr.

Wisconsin—Until May 1, by State Highway Comn., Madison, grading and surfacing with gravel 4 mi. Kewaunee Algoma Rd., 15 ft. wide, cost, $24,000; 8.66 mi. Algoma Sturgeon Bay Rd., 15 ft. wide, $40,000.

Ia., Des Moines—Until Apr. 21, by City Council, paving 1 block Des Moines St. from East 4th to East 5th Sts., involving 1181 sq.yd. vitr. brick, asphalt or bituminous concrete on 5 in. concrete base and 400 lin. ft. concrete curb and gutter, cost, $3500; 17 mi. Franklin Ave. from 74th St. to Beaver Ave., 7067 sq.yd. vitr. brick, asphalt or bituminous concrete in 5 in. concrete base, 5160 lin.ft. concrete curb and gutter, 5320 lin.ft. header, $19,600. F. Jeffries, clk.

Ia., Fairfield—Until Apr. 22, by Bd. Supervs. Jefferson Co., grading and placing tile and guard rail on 20 mi. Blue Grass Highway, Federal Aid Project No. 3. About $67,000. Work involves 12,717 lin.ft. guard rail, 16,900 lin.ft. drain tile, and 153,172 cu.yd. excav. D. L. Teal, co. engr.

Ia., Mapleton—Until Apr. 21, by City Council, paving 55 blocks, brick, concrete or asphalt on 5 in. concrete base. W. E. Standeven, 414 Bee Bldg., Omaha, engr.

Ia., Mason City—Until Apr. 21, by Bd. Supervs. Cerro Gordo Co., grading and paving with concrete 3940 ft. road from here to Plymouth, 3100 ft. 16 ft. wide and 831 ft. 20 ft. wide, involving 7358 sq.yd. concrete, 1600 cu.yd. earth and 230 cu.yd. loose rock excav., cost, $19,207; 5715 ft. road from here to Manly, 18 ft. wide, 11,430 sq.yd. concrete, 20,000 cu.yd earth and 390 cu.yd. loose rock excav., $36,868. R. E. Robertson, co. engr.

Minn., Elk River—Until May 12, by Comrs. Sherburne Co., paving and grading 4 mi. State Rd. No. 1, Federal Aid Project No. 44, 24 ft. wide. About $100,000. Work involves 3½ acres clearing and grubbing, 400 lin.ft. sectional concrete culverts, one 4 x 4 ft. rein.-con. culvert, 47,000 cu.yd. paving and 49,500 cu.yd. excav. F. W. Nickerson, Elk River, engr. Noted Apr. 10.

Minn., Faribault—Until May 7, by Comrs. Rice Co. building Job No. 1901, State Rd. No. 17, involving 5.51 acres clearing, 2.16 acres grubbing, 84,951 cu.yd. excav., 1718 cu.yd. side excav., 98,326 cu.yd. overhaul, 5440 lin.ft. guard rail, 72.5 lin.ft. 15 in. diam., 1125 lin.ft. 18 in. diam., and 202.5 lin.ft., 24 in. diam. concrete culverts, 162.9 cu.yd. rein.-con. culverts and 8131 lbs. reinforcing steel. W. P. Chapman, co. engr.

Minn., St. James—Until Apr. 30, by C. Larson, city clk., for 37,000 sq.yd. paving, 13,960 lin.ft. straight curbing, 2058 lin.ft. circular curbing, 13,000 cu.yd. excav., 380 lin.ft. header curbing and 1000 sq.yd. walks. J. W. Shaffer & Co., 403 New York Life Bldg., Minneapolis, consult. engrs.

Neb., Albion—Until Apr. 25, by F. M. Sillick, city clk., paving 25,000 sq.yd. streets, concrete, vitr. brick or asphalt on 5 in. concrete base. Cost between $76,000 and $106,000. W. E. Standever 414 Bee Bldg., Omaha, engr.

Streets and Roads (Continued)

Neb., Omaha—Until May 6, by City Council, grading and repaving Dodge St. from 17th to 22nd Sts., 18th, 19th and 20th Sts., from Capitol Ave. to Douglas St., 36-60 ft. wide, concrete vitr. brick, asphalt, creosote wood block or stone on 6 in. concrete base. About $185,000. J. A. Bruce, City Hall, engr.

Mont., Dillon—Until May 7, by city, paving 6 blocks on Montana St., 5 on Idaho St., and 6 cross streets, between Montana and Idaho Sts., involving 26,258 sq.yd. About $75,000. G. V. Elder, Dillon, engr. Noted Apr. 3.

Arkansas—Until May 14, (change of date) by State Highway Dept., Little Rock, surfacing and building 55 mi. highway from Little Rock to Hot Springs, concrete or asphalt including culverts and bridges, involving 492,000 cu.yd. earth work, 74 acres clearing and grubbing, 110,000 cu.yd. loose rock, 14,000 cu.yd. solid rock, 4300 ft. 12-30 in. culverts, 1994 yd. concrete in culverts and bridges, etc. Lund & Hill, Little Rock, engrs.; advertised in this issue.

Tex., Dallas—Until May 5, by C. E. Gross, aud. Dallas Co., for 106,000 sq.yd. concrete pavement, 1300 cu.yd. concrete bridging, 210,000 lb. steel reinforcement and 70,000 cu.yd. grading; advertised in this issue.

Okla., Okmulgee—Until Apr. 14, by City Comrs., paving and improving streets in Dist. No. 26. Work involves 5551 cu.yd. excav., 22,656 sq.yd. bituminous concrete, 1860 sq.yd. brick, 16,652 lin.ft. curb and gutter, 1548 lin.ft. armored curb and gutter, etc. R. H. Jenness, comr. of finance.

Okla., Tulsa—Until May 19, by Comrs. Tulsa Co., grading, paving and improving miles 6 of Section L, miles 1 to 5 inclusive of Sect. M, miles 3 to 5 inclusive of Sect. I, miles 1 to 7 inclusive of Sect. G, part of mile 8 of Sect. E from east end mile 2, Sect. I, north 1.3 mi., thence east 0.35 mi. to town of Dawson, total length 18 mi. L. Cline, co. clk.; advertised in this issue.

Idaho, Idaho Falls—Until Apr. 28, by city paving Dist. Nos. 10 and 11, bitulithic asphalt, asphaltic concrete or concrete. About $362,079. J. H. Wilson, engr.

Utah—Until Apr. 22, by State Rd. Comn., Salt Lake City, paving 8.23 mi. state road from Pleasant Grove to Provo. Utah Co., 18 ft. wide. I. R. Browning, State Capitol, engr. Noted Nov. 28.

Utah, Provo—Until Apr. 24, by city, paving 2450 ft., Center St., from 1st E St. to 5th E St., 44 ft. wide; about $5500; also 13,250 ft. from 5th E St. to 7th E St. 66 ft. wide; $18,000. C. H. Swan, city engr. Noted Mar. 27.

Washington—Until Apr. 21, by State Highway Bd., Olympia, building 4 mi. State Rd. No. 18, from Morton to Kosmos, Lewis Co. Work involves 6400 cu.yd. surfacing, 28,260 cu.yd. grading, etc.

Washington—Until Apr. 21, by State Highway Comn., Olympia, grading, draining and surfacing with crushed rock 4 mi. Kosmos-Norton Rd. J. Allen, state highway comr.

Washington—Until Apr. 28, by State Highway Comn., Olympia, paving with concrete 6 mi. Pacific Highway from St. Clair to Nisqually; also constructing 2000 lin. ft. pile and brush protection on Nisqually River, near Nisqually, Pierce and Thurston counties. J. Allen, state highway comr.

Washington—Until Apr. 28, by State Highway Bd., Olympia, clearing, grading, draining and constructing embankments by dredging, on 8.1 mi. Natl. Park Highway, between Nasel River and Bear River, Pacific Co. J. Allen, state highway comr.

Wash., Olympia—Until May 1, by City Council, for paving sidewalks and constructing curbs and gutters on Grant and Harrison Aves. Work involves 85,000 sq. yd. concrete. About $32,000. R. F. Wood, city engr.

Que., Montreal—Until Apr. 22, by Bd. Comrs. paving with granite blocks 570 ft. Commissioner St. between Barri and Victor Sts. About $28,678. P. Mercier, City Hall, engr.

Ont., Pickering—Until Apr. 24, by W. A. McLean, deputy minister of highways, Toronto, surfacing 11.6 mi. road, 20 ft. wide, on Provincial Highway. Alternate bids will be received for concrete surface, asphaltic concrete surface on concrete foundation or other type of material.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**New Hampshire**—Comrs. State Highway, Concord, let contract surfacing 5995 ft. Merrimack Valley Rd., 18 ft. wide, Bedford Twp., to Winslow & Cummins, Nashua, $9921. Noted Mar. 27.

★**Massachusetts**—State Highway Comn., Boston, let contract grading and draining 29,353 ft. State Highway, Beckett Twp., 18-24 ft. wide, to J. H. Kerr, Rumford, $132,084. Work involves 15,000 cu.yd. earth and 100 cu.yd. rock excav., 8000 cu. yd. borrow, 6400 cu.yd. broken stone, 88,000 gal. bituminous macadam and 10,000 cu.yd. stone filling. Noted Mar. 20.

★**Mass., Boston**—Comr. Pub. Wks. let contracts paving Mattchett St., Justin and Perthshire Rds., 1135 ft. long, 40 ft. wide, involving 3260 sq.yd. asphalt on 7 in. concrete base, 41 sq.yd. granite block, 13,900 sq.ft. concrete sidewalk, 3110 cu.yd. excav., to Central Constr. Co., School St., $17,200; Malverna Rd., 414 ft. long, 40 ft. wide, Roxbury Twp., involving 1200 sq.yd. bituminous macadam, to W. J. Rafferty & Co., 33 Champney St., South Boston, $3828.

R. I., Central Falls (Pawtucket P. O.)—Bd. Street, Water & Sewer Comrs., received bids Mar. 31, paving 2200 sq.yd. Broad St., granite block on concrete base, from Simpson Bros. Corp., 166 Devonshire St., Boston, $15,300; Lindberg & Street, Boston, $16,230. Noted Mar. 20.

★**N. Y., Brooklyn**—E. Riegelmann, boro. pres., let contract grading, curbing and laying sidewalks on East 8th St. from Ave. K to Ave. M, to Castle Bros., Inc., Johnson Pl., $6162; 36th St. from 15th Ave. to Chester St., to Cranford Co., 52 9th St., $14,655; 4th Ave. from 60th St. to Bay Ridge Ave., to Sicilian Asphalt Paving Co., 41 Park Row, New York City, $100,505. Noted Mar. 13.

★**N. Y., Brooklyn**—E. Riegelmann, boro. pres., let contract regulating and repaving with permanent asphalt, etc., roadway of (1) Engert Ave.; (2) Grove St.; (3) Jerome Ave.; (4) Knickerbocker Ave.; (5) Ridge Blvd.; (6) Saratoga Ave.; (7) St. Johns Place; (8) 23rd St.; (9) 85th St.; (10) 54th St.; to Sicilian Asphalt Paving Co., 41 Park Row, New York City, (1) $3588; (2) $10,440; (4) $2004; (5) $30,154; (6) $3692; (7) $11,171; (8) $6372; (10) $1742; Grimm Constr. Co., 460 Herold Ave., Richmond Hill, (3) $1976; Cranford Co., 52 9th St., (9) $2375. Noted Mar. 27.

N. Y., Utica—Bd. Contr. & Supply received bid paving (1) Gilbert and Ontario Sts., (a) sheet asphalt with artificial curb, (b) sheet asphalt with natural curb; (c) bitulithic with artificial curb; (d) bitulithic with natural curb; (e) asphaltic concrete with artificial curb; (f) asphaltic concrete with natural curb; (2) Hart St. from Plant to Tracy Sts.; (3) resurfacing Main St. from John to 1st Sts., (g) sheet asphalt; (h) bitulithic; (i) asphaltic concrete; (4) John St. from Bagg Sq. to Erie Canal; (5) Hart St. from Mandeville to Kirtland Sts., from H. W. Roberts Co., (1a) $35,210; (b) $36,726; (c) $35,854; (d) 35,438; (e) $33,854; (f) $35,438; (2a) $5219; (b) $5471; (c) 5288; (d) $5540; (e) $5081; (f) $5333; (3g) $7946; (h) $8094; (i) $7584; (4g) $11,256; (h) $11,504; (i) $10,636; (5a) $13,920; (b) $14,592; (c) $14,140; (d) $14,812; (e) $13,480; (f) $14,152. Noted Apr. 3.

★**New Jersey**—State Highway Comn., Trenton, let contract paving with concrete 5.15 mi. State Highway No. 6, Mullica Hill-Mantua Sect., Gloucester Co., to J. M. Kelly Constr. Co., 432 Market St., Camden, $180,630. Noted Mar. 20.

★**N. J., Camden**—Comrs. Camden Co. let contract resurfacing Marlton Pike with concrete, to J. M. Kelly Constr. Co., 432 Market St., $129,745. Noted Mar. 27.

★**N. J., Hackensack**—Bd. Freeholders Bergen Co. let contract improving Williams Ave. from Little Ferry to Hasbrouck Heights, Portland cement concrete surface, to C. C. Jobs & Sons, Little Ferry, $52,123.

★**N. J., Salem**—Bd. Freeholders Salem Co. let contract paving 3rd Sect. Malaga-Pennsgrove Rd., Woodstown Boro., to Craig & Mulford, Cedarville, $31,674. Noted Mar. 13.

★**Pennsylvania**—State Highway Comn., Harrisburg, let contracts building roads in Armstrong Co., to Freilino Bros., Leechburg, cost $197,004; Berks Co., G. Merdinger, E. P. Wilbur Trust Bldg., Bethlehem, $86,766; Bradford Co., to W. Moore & Co., Colonial Trust Bldg., Phila., $297,697; Cambria Co., to Bd. Superv Croyle Twp., Cambria Co., $54,843; Center Co., to Gifford & Pritchard, Phillipsburg, $12,891; Clinton and Elk Counties to Miller Constr. Co., P. O. Box 33, Punxsutawney, $108,746 and $249,176 respectively; Crawford Co., to Baldwin & Welcomer, Union City, $114,759; Erie Co., to J. McCormick & Son, 645 West 10th St., Erie $149,467; Franklin Co., to Souder Constr. Co., 214 East Orange St., Lancaster, $186,528; McKean Co., to P. F. Connolly Koppel, $20,785; Mercer Co., to Brackenridge Sand & Gravel Co., Brackenridge, $154,800; Potter Co., to Tyne & Willey, 407 Savings Bank Bldg., Binghamton, N. Y., $99,062; Warren Co., to M. Dolan, 35 Fairmont Ave., Jamestown, N. Y., $70,612. Noted Apr. 3.

★**Pa., Pittsburgh**—Allegheny Co. let contract grading, paving and improving 12,000 ft. Round Hill Rd., 20 ft. wide, Forward Twp. to McLaughlin Contg. Co., Germania Bldg., $73,743. Noted Apr. 10.

★**Pa., Pittsburgh**—J. P. Moore, co. controller, Allegheny Co., let contract widening and rebuilding 3400 ft. Brackenridge Rd., to W. A. Martin, 4905 Penn Ave. $47,175. Work involves 6800 sq. yd. concrete on concrete base, etc. Noted Apr. 10.

Pa., Pittsburgh—City received bids grading, paving and curbing (a) Jupiter Way, involving 700 sq. yd. vitr. brick on 5 in. concrete base, 907 ft. curbing; (b) Royal St., 428 sq. yd. stone block on 6 in. concrete base, 325 lin. ft. curbing; (c) Eckert Way, 830 sq. yd. vitr. brick on 6 in. concrete base, 448 lin. ft. curbing; (d) Fuchsia Way, 750 sq. yd. block asphalt on 6 in. concrete base, 1168 lin. ft. curbing; (e) Roessler St., 410 sq. yd. stone block on 6 in. concrete base, 432 lin. ft. curbing; (f) Wapello St., 1015 sq. yds. vitr. brick on 6 in. concrete base, 837 lin. ft. curbing; (g) Universal St., 4836 sq. yd. vitr. brick on 6 in. concrete base, 3919 lin. ft. curbing; (h) Arabia Way, 392 sq. yd. vitr. brick on 6 in. concrete base, 26 lin. ft. curbing; (i) Colvill St., 444 sq. yd. stone block on 6 in. concrete base; (j) Mulberry Way, 656 sq. yd. stone block, on 6 in. concrete base; (k) 56th St., 780 sq. yd. vitr. brick on 6 in. concrete base, 545 lin. ft. curbing; (l) 53rd St., 742 sq. yd. on 6 in. concrete base, 573 lin. ft. curbing; (m) Camelia St., 3920 sq. yd. on 6 in. concrete base 3031 lin. ft. curbing; (n) McCandless St., 2230 sq. yd. asphalt on 6 in. concrete base, 1590 lin. ft. curbing; (o) McCandless St., 1537 sq. yd. stone block on 6 in. concrete base, 1192 lin. ft. curbing from J. T. Neelen, Perrysville, (a) $3969, (c) $4135, (f) $6752; Pittsburgh Paving Co., Bakewell Bldg., (a) $4199, (d) $6463, (f) $6744, (h) $1985, (l) $5034; M. O. Herron & Co., 1st and McKean Sts., (a) $4084, (b) $3350, (c) $4479, (d) $6595, (e) $3685, (f) $6685, (h) $2309, (i) $3749, (j) $4657, (k) $4257, (l) $4190, (m) $24,396, (n) $14,235 (o) $16,560; T. Cronin, 17th and Muriel Sts., (b) $3340, (e) $3717, (i) $3768, (j) $4538, (k) $4778, (m) $27,513, (n) $16,335, (o) $20,082; Booth & Flynn, Forbes St., (b) $3481, (e) $3790, (g) $29,120, (i) $3949, (j) $4590, (o) $18,929; F. and F. Diulus, 40 Boundary St., (c) $4499, (g) $29,542, (h) $2185, (k) $4843, (l) $4937, (m) $27,675; Dallas Mardulli, Pittsburgh, (d) $6587; McDonough & O'Toole, Pittsburgh, (g) $28,123; Monongahela Constr. Co., Oliver Bldg., (n) $16,667.

★**Maryland**—State Rds. Comn., 601 Garrett Bldg., Baltimore, let contract building 2.65 mi. concrete highway from St. Michaels to Claiborne, Talbot Co., 18 ft. wide, 3 ft. dirt shoulders, to Farmer & Flick, 15 East Fayette St., $78,173. Noted Apr. 3.

★**Md., Baltimore**—Bd. Awards let contract grading and paving alleys in various sections with 6 in. cement concrete, 3-12 ft. wide, as follows: Contr. No. 41, to Aiello Constr. Co., 3701 Claremont St., $26,752; Contr. Nos. 49 and 53, to Edmonson Paving Co., 521 Calvert Bldg., $30,431 and $29,003 respectively, Contr. No. 51, to Christhilf & Ensey, 608 Munsey Bldg., $27,753; Contr. No. 52, to Reinhart Constr. Co., 523 Calvert Bldg., $43,170; Contr. No. 54 to Ward & O'Connell 407 Law Bldg., $19,421.

★**Md., Frederick**—Comrs. Frederick Co. let contract building 1.8 mi. State Aid Highway from Emmetsburg to Bridgeport, 15 ft. wide, 8 in. concrete in center, 6 in. on sides, 3 ft. dirt shoulders, to Potomac Eng. & Constr. Co., Law Bldg., Baltimore, $65,088.

Streets and Roads (Continued)

★**W. Va., Fairmont**—Comrs. Marion Co. let contract building 18,361 sq.yd of concrete road, 6-8 in. thick, 2400 ft. to be 16 ft. in width, balance 14 ft., to Van Wirth & Bromley, Glen Falls, N. Y. $73,587.

★**W. Va., Fayetteville**—Fayette Co. let contract paving 3 mi. road from Glen Jean to Thurmond, Contr. No. F. Y. 10 B., also 3.3 mi. from Glen Jean to Thurmond, Contr. No. F. Y. 10 B., to Charleston Concrete Constr. Co., Charleston, $34,614 and $38,328 respectively.

★**W. Va., New Cumberland**—Comrs. Hancock Co. let contract grading and paving 5550 ft. Federal Aid Project No. 22, 9 ft. wide, involving 5550 brick block on 5 in. concrete base, also 5300 ft. Chester-Fairview Rd., 9 ft. wide, involving 5300 brick block, to F. Robinson, New Cumberland, $27,000 and $18,000 respectively; 3200 ft. Lawrenceville Rd., 9 ft. wide, involving 3200 sq.yd. 6-7 in. concrete, to C. B. Kimberly Co., Wheeling, $10,800. Noted Feb. 27.

W. Va., Webster Springs—Comrs. Webster Co., received bid grading and draining 60 mi. road from Rodd & Co., Bristol, Va. About $50,000.

★**N. C., Raleigh**—Wake Co. let contract paving 4¼ mi. Raleigh-Garner Highway, to Boxley & Co., Roanoke, Va., $118,000. Noted Apr. 3.

★**Ga., Atlanta**—Comrs. Rds. & Revenues, Fulton Co., let contract paving with bitoslag, 43,000 sq.yd. Marietta Rd., from Inmans Yards to Bolten, to R. M. Hudson Co., 3rd Natl. Bank Bldg., $1.70 per sq.yd. Noted Feb. 27.

★**Ala., Eutaw**—Comrs. Greene Co. let contract graveling 4½ mi. road from Eutaw to Tuscaloosa, to S. H. Brown & Son, Jasper. About $28,000. Noted Feb. 27.

Ohio—State Highway Comn., Columbus, received bids Apr. 11, grading and paving with concrete and building bridges on 1 mi. Sect. "I," Columbus-Portsmouth Rd., from Kelly & Dunham, Waverly, $30,293; B. F. Bolin, Columbus, $30,794.

★**Ohio**—State Highway Comn., Columbus, let contract grading and paving with interbound macadam, and building bridges on 3.85 mi. Sect. "K," Columbus-Cincinnati Rd., to Koffroth, Casey & Mansberger, Richwood, $34,935.

★**O., Cleveland**—City let contracts paving Poe Ave. from West 39th St. to Fulton Rd., to Roehl Bros. West 25th St. and Clark Ave., $12,444. Work involves 1010 cu.yd. excav., 20,350 sq.ft. 4 in. brick pavement on 6 in. concrete base, 1655 ft. in stone curbing and 1655 ft. 4 in. drain; Hessler Rd. from Bellflower Rd. to point 259 ft. southerly, to Bentley Bros., 403 Electric Bldg., $5292. Work involves 255 cu.yd. excav., 5166 sq.ft. 6 in. concrete foundation, 574 sq.ft. 4 in. wood block and 590 ft. 5 in. Berea stone curbing; Seville Ave. from West 93rd to 95th Sts., to Rieley Bros., 357 Arcade Bldg., $1508; work involves 5120 cu.ft. excav. and 16,000 sq.ft. 5 in. brick. Kirman Ave. from West 74th to 79th Sts., to Baldwin Bros., 4500 Euclid Ave., $11,840. Work involves 20220 5 in. Brick Block and 1830 5 in. Berea stone.

★**O., Perrysburg**—City let contract building 1 mi. 5th St., 26 ft. wide, involving 16,417 sq.yd asphalt on concrete base, 11,035 lin.ft. curbing and 10,860 cu.yd. earth excav., to Federal Asphalt Paving Co., 316 Rentschler Bldg., Hamilton, $56,977. Noted Apr. 10.

★**Mich., Detroit**—Dept. Pub. Wks. will resurface Bethune St., from 3rd St. to Hamilton Blvd., cost $6380; Cadillac Ave., from Kercheval to Mack Aves., $30,480; Harper Ave. from Chene St. to Mt. Elliott Ave., $34,000; Henry St. from Wabash Ave. to 15th St., $4830; Townsend Ave., from St. Paul to Mack Aves., $31,620; 23rd St., from Buchanan St. to Warren Ave., $13,100; Warren Ave., from St. Aubin St. to Mt. Elliott Ave., $37,440; Garland Ave., from old city limits to Mack Ave., $8010; McMillan St., from Campbell to Cavalry Aves., $3170; Vermont St., from Bagg St. to Grand River Ave., $29,060; also resurface and widen Junction Ave. from 260 ft. south of Rollins St. to Michigan Ave., $25,110; all asphalt; Brewster Ave., from Riopelle St. to Gratiot Ave., $27,770 and Cass Ave. from Colburn to Amsterdam Sts., $33,930, asphalt on new foundation; Livernois Ave., from Stark to Michigan Aves., $25,520, brick or asphalt; 3rd St. from river to Congress St., $20,620, granite block. Work will be done by day labor.

★**Ill., Winnetka**—Bd. Local Impvts. let contract paving various streets with 1 course rein.-con. and integral curbs, to Marquette Constr. Co., 133 West Washington St., Chicago, $228,957. Noted Mar. 6.

★**Ia., Des Moines**—Comrs. Polk Co. let contract grading, clearing and grubbing 5 mi. White Pole Rd., to P. J. Ryan, 227 Fairview St., Council Bluffs, $13,530. Work involves 33,000 cu.yd. excav.

★**Minn., Anoka**—Comrs. Anoka Co. let contract for furnishing trap rock and paving, Div. "C", Federal Aid Project, to Widell Co., 1st Natl. Bank Bldg., Mankato, cost $153,194; grading and graveling Div. "A", to Petrie Colburn & Merill, Anoka, $60,836.

★**Minn., Henderson**—Comrs. Sibley Co. let contract to Gould & Huntington, Glencoe, grading, hauling and installing portable cement culverts on 7.10 mi. Job No. 1802, State Rd. No. 1, Washington Lake and Green Isle Twps., cost, $16,756; hauling and installing 77 lin.ft. portable culverts on 1 mi. Job No. 1902, State Rd. No. 8, Arlington Twp., $2692; A. W. Webster, Nicollet, clearing 2.1 acres, grubbing 1 acre and hauling and installing 362 lin.ft. portable culverts on Job No. 1903, State Rd. No. 6, $6621; A. G. Truman, New Auburn, grading 2.10 mi. Job No. 1803, State Rd. No. 5, Dryden Twp., $3417. Noted Apr. 3.

★**Minn., Stillwater**—Comrs. Washington Co. let contract grading and graveling 5 mi. Hudson-St. Paul Highway, 24 ft. wide, to Jamieson, Thorsen & Sandeen, Stillwater, $30,073. Noted Apr. 10.

★**Kan., Eldorado**—City let contract paving various streets with asphaltic concrete, to L. L. Beye, Eldorado, $74,500; Central Ave. from Summit St. to city limits, brick, to A. Jaicks Co., 508 Amer. Bldg., Kansas City, Mo., $34,800. Noted Apr. 10.

★**Kan., Kansas City**—City let contract grading and paving 12th St. from Nebraska St. to Washington Ave., involving 950 sq.yd. concrete, also paving Troup St. from 17th to 18th Sts., 1200 sq.yd. concrete, to G. G. Roudebush, 658 Garfield Ave., $1952 and $2100 respectively; 33rd St. from Strong to Metropolitan Sts., 1650 sq.yd. concrete; Ruby Ave. from Woodland to 30th Sts., alley between Kansas and Shawnee Sts. and between 10th and Ferrell Sts., to Brown Bros., 11th and Muncie Blk., $2887, $6300 and $925 respectively.

★**North Dakota**—State Highway Comrs., Bismarck, let contract grading road on Federal Aid Project No. 10, Pierce Co., to Steig & Olson, $11,968; concrete culverts, to W. B. Paterson, $888; State Aid Project No. 3672 and 19, Ramsey Co., to T. Young & Son, Devils Lake, $3587 and $16,804 respectively, concrete culverts, to J. A. Jardine, Fargo, $641 and $3885 respectively; Federal Aid Project No. 18, Ramsey Co., to J. Yoeman, Devils Lake, $10,301, concrete culverts, to J. A. Jardine, $1627.

★**N. D., Grafton**—City let contract repaving main streets with asphaltic concrete, to J. O'Connor, Fargo, $72,423. Noted Feb. 27.

★**Okla., Oklahoma**—City Comrs. let contract paving 13th, 28th, 29th, 36th and 41st Sts., also Olie and Stiles Aves., Lincoln Blvd. and Butler Pl. north and south alley through blocks 3, 6, 9, (Dale Addition), to Western Paving Co., 518 Terminal Bldg., $107,723; 11th and 12th Sts., Park Pl., Lindsay and Laird Aves., to M. A. Swatek & Co., 412 Security Bldg., $77,277. Noted Mar. 13.

Utah—State Rd. Comn., Capitol, Salt Lake City, received lowest 3 bids, Mar. 25, building (a) 8500 ft. road from Centerville to Farmington, 18 ft. wide, (1) bituminous concrete pavement 2 in. top, 4 in. crushed stone base, cement ppe, (2) bituminous concrete pavement, 2 in. top, 4-6 in. concrete base, cement pipe, (3) concrete pavement, 6-8 in. thick with cement pipe; (b) 17,233 ft. road from Clearfield to Sunset, (1) bituminous concrete pavement with 2 in. top and concrete base 4-6 in. thick, with machine made cement pipe, (2) concrete pavement 6-8 in. thick with machine made cement made pipe, from Strange-Maguire Co., Utah Savings & Trust Bldg., (A-1) $56,337; A. E. Christensen, Salt Lake City, (A-2) $45,542; R. E. Campbell, Salt Lake City, (A-1) $67,004, (A-2) $84,247; (A-3) $65,007; Lynch Constr. Co., McIntyre Bldg., (A-3) $51,286; (B-2) $54,316; A. J. Gillis, Kearns Bldg., (B-2) $56,096; P. J. Morgan, Felt Bldg., (B-1) $74,585, (B-2) $63,714. Noted Apr. 3.

★**Wash., Bellingham**—Comrs. Whatcom Co. let contract building 12 mi. Deming-Wickersham Rd., concrete, to Ledingham & Cooper, Centralia, $230,000.

★**Ore., Salem**—See "Proposed Works."

★**Cal., Los Angeles**—Bd. Pub. Wks. let contract grading, oiling and building cement curbs, walks, concrete gutters, also concrete bridge over Sherman Dr., West Blvd. Impvt. Dist., to F. W. Young, 307 Wright & Callender Bldg., $32,000. Noted Apr. 10.

Cal., Los Angeles—City received lowest bid paving, etc., on Huntington Rd. and various other streets in Rose Hill and Pyrites St. Impvt. Dist., from G. H. Oswald, O. T. Johnson Bldg., total cost, $115,828. Work involves 180,152 sq.ft. finish grading at $0.05 and $0.07 per sq.ft., 180,152 sq.ft. protected concrete pavement at $0.21 per sq.ft., 3596 sq.ft. grading, oiling and rolling at $0.04 per sq.ft., 8540 lin.ft. cement curbs at $0.45 per lin.ft., 1790 sq.ft. cement sidewalks at $0.13 per sq.ft., 700 sq.ft. concrete gutters at $0.20 per sq.ft., storm drains, $45,846, sanitary sewers, $2000, and pedestrian subway, $13,000. Former contract rescinded. Noted Nov. 28.

Cal., Santa Barbara—City let contract improving 9 blocks East Montecito St., to Fairchild-Gilmore-Wilton Co., Pacific Electric Bldg., Los Angeles, $49,580. Work involves 5 in. concrete pavement with 2 in. bitulithic surface, cement curbs and gutters, corrugated iron culverts and 6 in. vitr. sewer connections. Noted Mar. 13.

Railways

PROPOSED WORK

Oregon—See "Industrial Works under Gold Hill."

California—City of Pasadena defeated $3,000,000 bond issue to build electric railway to Los Angeles. Noted Mar. 13.

California—Bay Point & Clayton R.R., 2 Market St., San Francisco, plans to extend its line 1 mi. near Bay Point. Project includes 2 bridges, one 80 ft. long, plate girder span, over tracks Atchison, Topeka & Santa Fe Ry., other, 110 ft. long, over tracks Southern Pacific R.R., also 2000 lin.ft. pile trestle along water front. C. S. Thompson, Cowell, engr. About $100,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**West Virginia**—Domestic Coke Corp., Fairmont, let contract building 1¾ mi. line from Holt to Fairmont, to Keeley Bros., Clarksburg. About $125,000.

Excavation and Dredging

PROPOSED WORK

Ia., Sac City—Ditch—Bd. Supervs. Sac Co. soon receives bids improving D. D. No. 71. Sect. 1 consists of open ditch work, cost, $42,000; Sect. 2, large tile in old open ditch, $110,000; Sect. 3, tile system, $37,000. A. E. Holmer, co. drainage engr. Noted Feb. 20.

Ore., Portland—Channel—City plans to build channel from Columbia River to intersection of east edge of Interstate Bridge approach. About $273,650. G. R. Funk, city aud.

Cal., Chowchilla—Irrigation—See "Miscellaneous."

Cal., Coachella—Irrigation—Coachella Storm Water Dist. receives bids about June 1, building large earth fill dam at Point Happy, series of open storm water ditches and concrete drops to control waters of Whitewater River and Snow Creek. Bonds for $300,000 voted and sold for project and $250,000 will be used for construction. B. A. Teagle, secy. A. L. Sondregger and W. K. Barnard, Central Bldg., Los Angeles, engrs.

BIDS DESIRED

Miss., Marks—Dredging—Until May 2, by Newsum Lake, D.D., for dredging and levee work in Quitman and Tallahatchie Counties. Work involves 500,000 yd. floating dredge work, 160,000 cu. yd. embankment in levee, 185 acres clearing and grubbing and 400 lin. ft. 24-36 in. pipe with automatic flood gates. L. W. Mashburn, Clarkesdale, engr.

Ill., Sterling—Ditch—Until Apr. 28, at office of C. E. Sheldon, Sterling, for deepening, widening, etc., ditch, 37,765 ft. long, in D. D. No. 1, Hahnaman Twp., Whiteside Co., involving 101,211 cu.yd. excav. E. O. Hills, Fulton, engr., advertised in this issue.

Excavation and Dredging (Continued)

Minn., Benson—Ditch—Until Apr. 28, by Comrs. Swift Co. furnishing material and labor building Judicial Ditch No. 15, involving 125,805 ft. 5-18 in. standard concrete or clay tile and 2 headwalls. About $20,176. A. W. Van Slyke, Benson, engr.

Kan., Marion—Excavation—Until April 30 by Cottonwood Valley D. D., improving Cottonwood River and its tributaries. Work involves (1) 968,000 cu.yd. new channel excav., (2) 160,000 cu-yd excav. from present channels, (3) 130,000 cu.yd. levee embankments, and (4) 56,000 lin.ft. of obstructions other than earth from present channels. Bids for 1 or more divisions will be considered. Tuttle-Ayers-Woodward Eng. Co., 305-7 Reliance Bldg., Kansas City, Mo., engrs.; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Miss., Marks**—Dredging—Deep Bayou D. D. and Marks D. D., let contract for 12 mi. dredging in bayou channels, involving 210,000 yd. floating dredge work, to Kohler Contg. Co., 608 Globe Bldg., Minneapolis, Minn. About $46,000.

★**O., Cleveland** — Excavation — Comrs. Cuyahoga Co. let contract for excavation work for county jail, West 3rd St. and Lakeside Ave., to R. C. Carey Co., 1500 West 112th St. About $29,100. Noted Mar. 20 under "Buildings."

Minn., Waseca—Ditch—Comrs. Waseca Co., (Waseca), and Steel Co., (Owatonna), received bids buildings Judicial Ditch No. 5, from Love & Hewitt, Le Roy, Ind., $17,355, and J. A. Erickson, Waseca, $17,579. Noted Feb. 27.

★**Mont., Lima**—Canal—Lima Ditch Co. let contract building 19½ mi. irrigation canal involving 147,000 cu.yd. earth excav. etc., to J. H. Younkin. About $50,000. Noted Oct. 10.

Industrial Works

PROPOSED WORK

Mass., New Bedford — Baker Mfg. Co., 242 North Water St., soon receives bids building 2 story, 50 x 100 ft. brick and rein.-con. addition to factory, rein.-con. flooring, concrete foundation, on North Water St. About $30,000. LaBrode & Bullard, Theater Bldg., archts.

Mass., New Bedford—Fairhaven Mills, 115 Coggleshall St., plans to build 1 story, 200 x 300 ft. brick and mill construction addition to cotton mill, rein.-con. flooring, concrete foundation. About $125,000. C. W. Praray, Times Bldg., engr.

Mass., New Bedford—F. W. Greene, Jr., 23 Chauncery St., soon lets contract building 1 story, 55 x 220 ft. brick, steel and concrete garage, rein.-con. flooring, concrete foundation, on Union St. About $50,000. La Brode & Bullard, Union St., archts.

Mass., Springfield — New York, New Haven & Hartford R.R., New Haven, Conn., plans to build brick and concrete boiler plant, rein.-con. flooring, concrete foundation, at yards here. E. Gogel, New Haven, ch. engr. About $25,000.

Mass., Westfield—Westfield Candy Co., 132 Elm St., soon receives bids building 1 story brick ice cream plant, rein.-con. flooring, concrete foundation, on Elm St. About $30,000.

R. I., Westerly—Town plans to issue $300,000 bonds to build lighting plant. E. E. Whipple, town clk.

Conn., Bridgeport—Carlisle Cord-Tire Co., Andover, Mass., soon receives bids building 1 story, 150 x 250 ft. brick and concrete factory, rein.-con. flooring, concrete foundation, on Fairfield Ave., here. About $100,000.

Conn., Bridgeport—R. Poladian, 172 Wade St., soon receives bids building 1 story, 60 x 85 ft. brick and timber plant, concrete flooring, and foundation, on Wade St. About $25,000.

Conn., Bridgeport—Post Publishing Co., 49 Cannon St., plans to build 2 story plant at 140 Middle St. About $60,000. W. J. Skinner, 1188 Main St., archt.

Conn., New London—New Haven Dairy Co., Hazel St., New Haven, plans to build 2 story, brick and rein.-con. ice plant, rein.-con. flooring, concrete foundation, on Pequot Ave., here. About $50,000.

Conn., Norwich—Cudworth & Thompson, archts., Thayer Bldg., soon receive bids building 1 story, 80 x 80 ft. brick garage, rein.-con. flooring, concrete foundation, on Bath St., for W. F. Bailey, 1° Bath St. About $25,000.

N. Y., East Rochester—Beechnut Packing Co., Main St. E., plans to build 4 story, 73 x 180 ft. rein-con. warehouse and 1 story 34 x 50 ft. office on Main St. E. About $100,000 and $9000 respectively.

N. Y., Long Island City—Amer. Chicle Co., Harris Ave., having plans prepared by Ballinger & Perrot, archts., 1328 Bway., New York City, building 5 story rein.-con. and steel factory, rein.-con. flooring, concrete foundation, on Harris Ave. Cost over million dollars. Noted Apr. 10.

N. J., Jersey City—See "Buildings."

N. J., Trenton—MacCrellish & Quigley, 11 South Montgomery St., plan to build 3 story, printing plant on Montgomery St. About $200,000. J. W. West, 156 Mercer St., pres.

Pa., Harrisburg—C. H. Masland, Amber and Westmoreland Sts., Phila., having preliminary sketches prepared by Lockwood, Greene & Co., archts., 101 Park Ave., New York City, for brick and steel plant, rein.-con. flooring, concrete foundation, near here. Plans include several 1 and 2 story buildings.

Pa., Phila. — Ledger Publishing Co., Independence Sq., receives bids in spring 1920, constructing 10 story, concrete building, concrete foundation, on 6th, 7th, Sansom and Chestnut Sts. About $1,000,000. F. C. Roberts, Real Estate Trust Bldg., archt.

Pa., Tamaqua—B. R. Stevens, archt., 1737 Filbert St., soon receives bids building 2 story, 87 x 102 ft. concrete factory for M and G Ice & Ice Cream Co. About $50,000.

Md., Baltimore—L. Blaustein, 401 Amer. Bldg., plans to build 4 story, 63 x 69 ft. brick, concrete and steel warehouse, stone and concrete foundation, on Eastern Ave. G. R. Callis, 55 Knickerbocker Bldg., archt.

Md., Baltimore—Standard Oil Co., Pier 2, Pratt St., plans to build 6 story, 100 x 100 ft., rein.-con., steel and brick warehouse on Pier 2. About $200,000.

Md., Baltimore—C. M. Stieff, Inc., 9 North Liberty St., having plans prepared by T. W. Pietsch, archt., 1210 Amer. Bldg., for 3 story, 25 x 100 ft. rein.-con., steel and brick, stone and concrete foundation, at 315 North Charles St. About $100,000.

Md., Baltimore—Universal Garage Co., Pennsylvania and Fulton Aves., soon receives bids building 1 and 2 story, 98 x 350 ft., brick, concrete and steel garage, brick and concrete foundation, on Pennsylvania and Fulton Aves. Cost between $55,000 and $60,000. G. R. Callis, Jr., 55 Knickerbocker Bldg., archt.

Va., Petersburg—W. H. Camp, Inc., Wharf, plans to build 1 story fertilizer plant. About $55,000.

W. Va., Wheeling — Wheeling Traction Co. plans to build 2 story, brick car barn and shop on Warwood St. About $75,000. C. P. Billings, genl. mgr.

La., New Orleans—Times-Picyune Publishing Co., 314 Camp St., plans to build 4 story, 85 x 150 ft., brick and concrete plant, rein.-con. flooring, concrete foundation, on Camp and North Sts. M. H. Goldstein, Perrin Bldg., archt.

O., Cleveland—G. W. Hale, Leader News Bldg., plans to build 3 story, 165 x 180 ft. brick, steel and rein-con. garage, rein.-con. flooring, concrete foundation, on East 9th St. and Bolivar Rd. About $250,000.

O., Cleveland — C. Schwarzenberg & Gaede, archts., 1900 Euclid Ave., soon receives bids building 3 story, brick, steel and concrete warehouse, rein.-con. flooring, rock foundation, on East 40th St. and New York Central Ry., for H. S. Rivitz Co., 2112 Ontario St. About $300,000.

O., Cleveland—Van Dorn Electric Tool Co., 2978 Woodhill Rd., had plans prepared by W. J. Carter, archt., 723 Illuminating Bldg., building 4 story, 50 x 100 ft. brick, steel and concrete factory. About $75,000.

O., Cleveland—J. J. Weiner Eng. & Serv. Co., 10101 Quincy Ave., plans to build 1 story, 50 x 125 ft. brick, steel and concrete plant, rein-con. flooring, brick foundation. About $25,000.

Mich., Detroit—C. Bohn Fdry. Co., Chene St., soon lets contract building 1 story, 168 x 240 ft. steel and brick foundry, concrete foundation, on Chene St. and Finley Ave. C. W. Brandt, 1114 Kresge Bldg., archt.

Mich., Detroit—Detroit Seamless Steel Tube Co., 841 West Jefferson Ave., having plans prepared building brick and steel factory, on Wyoming and West Warren Aves. Cost, including equipment, $1,700,000. A. A. Templeton, pres.

Ill., Chicago—Wells & Co., 2501 South Dearborn St., plans to build printing plant on 100,000 sq.ft. site on South 52nd Ave. and 18th St.

Ill., Duquoin—Chamber Commerce having plans prepared for shoe factory. About $50,000.

Wis., Green Bay—H. W. Kreuger soon lets contract building 2 story, 100 x 100 ft. sheet metal factory. Cost between $50,000 and $60,000.

Wis., Sheboygan—F. Blocki Co., 8th St. and Maryland Ave., plans to build 2 story factory. About $70,000.

Minn., Minneapolis—Brin Glass Co., 610 North 1st St., soon lets contract building 4 story, 66 x 162 ft., concrete warehouse on 6th Ave., N. About $100,000. C. E. Bell, 518 Security Bldg., Minneapolis, archt.

Kan., Oswego—City voted $50,000 bonds to build new lighting plant. Noted Mar. 20.

Neb., Beatrice—City plans to build hydroelectric power plant. About $56,000.

Neb., Omaha—Nebraska & Iowa Steel Tank Co., 13th St. and Wills Ave., plans to build 1 story, 120 x 235 ft., rein.-con. and brick plant. About $50,000. T. R. Kimball, 836 World-Herald Bldg., archt.

N. D., Fargo—City voted $150,000 bonds to build electric light plant. F. L. Anders, city engr. Noted Mar. 13.

Mo., St. Louis—Swift & Co., 39th and Papin Sts., soon lets contract building 1 story, 60x60 ft., concrete, brick and steel addition to power house, rein.-con. flooring, concrete foundation, on 39th and Papin Sts. Cost including equipment $70,000. H. A. Green, o/c owner, supt.

Wash., Selah—T. R. Slusher plans to build addition to cold storage warehouse. About $50,000.

Wash., Vancouver—California Barrel Co. purchased 130 acre site and plans to build plant. About $500,000. Address F. J. Koster, 22nd and Illinois Sts., pres. of San Francisco Chamber Commerce.

Ore., Gold Hill—Rogue River Lumber & Box Co. purchased sawmill plant of Gold Hill Lumber & Ry. Co., 6 mi. north of here, and plans to rebuild box factories here and extend railway into timber lands. Address S. Bishoprick, Portland.

Ore., Portland—Cook & Gill, Bway. and Everett St., plan to build 4 story, 75 x 112 ft. rein.-con. garage, on 11th and Burnside Sts. About $60,000. Sutton & Whitney, Lewis Bldg., archts.

Ore., Portland—A. H. Maegley, Eilers Bldg., plans to build 95 x 100 ft. brick garage on 2nd and Main Sts. J. V. Bennet, Chamber Commerce Bldg., archt.

Ore., Woodburn—A. Graves, pres., Sheridan State Bank, Sheridan, having plans prepared for large berry cannery here.

Cal., Calexico—C. R. Rockwood had plans prepared by J. F. Rhodes, archt., 415 Central Bldg., Los Angeles, building 1 story, 100 x 146 ft., rein.-con. garage and shop, concrete foundation.

Cal., Los Angeles—G. H. Wadleigh, c/o E. L. Mayberry, archt., 468 Pacific Electric Bldg., having plans prepared for 3 story, 70 x 170 ft., rein.-con. and brick garage and shop, rein.-con. flooring, concrete foundation, on 7th St. near Figueroa St. H. G. Haffer, 1026 Orange St., lessee.

Cal., San Diego—Brighton Mills, Brighton Ave., Passaic, N. J., plans to build cotton spinning and weaving plant here. About $100,000. E. C. Lyall, representative.

Cal., San Diego—Weldon Sash & Door Co. plans to rebuild 1 story, brick and timber mill, concrete foundation, on 13th and L Sts. About $25,000.

Cal., Turlock—E. L. Jewett, C. W. Hunt and L. E. Bontz, all of Turlock, plan to build 50 x 500 ft. curing plant. About $60,000.

Ont., Ottawa—Ottawa Gas Co., Sparks St., soon receives bids completing plant on Lees Ave. About $850,000. A. A. Dion, 35 Sparks St., supt.

Ont., Timmins — Hollinger Consolidated Mines soon receives bids building plant. Cost, including equipment, $500,000. A. F. Brigham, mgr.

Industrial Works (Continued)

Cuba, Havana—Cuban Air Reduction Co., 120 Bway., New York City, having plans prepared for 2 story, 98 x 108 ft. rein.-con. acetylene plant, rein.-con. flooring, concrete foundation, here. About $100,000.

BIDS DESIRED

N. Y., New York—Until May 1, by J. Fisher, archt., 25 Ave. A, constructing 2 story, 70 x 154 ft. brick and concrete storage building, rein.-con. flooring, concrete foundation, on East 3rd and Tompkins Sts., for J. Goldstein, c/o archt. About $75,000. Noted Mar. 20.

N. Y., New York—Until Apr. 19, (change of date), by J. Fisher, archt., 25 Ave. A, building 2½ story, 75 x 150 ft. brick and steel warehouse, rein.-con. flooring, concrete foundation, on 3rd and Tompkins Sts., for Horowitz Bros., 371 East 4th St. About $75,000. Noted Apr. 3.

Pa., Phila.—Until Apr. 21, by C. W. Miller, Morris Bldg., building 1 story, 50x215 ft., brick garage, cement flooring, stone foundation, on Market and 49th Sts. L. B. Rothschild, 1225 Sansom St., archt.

Pa., Phila.—Until Apr. 25, by F. E. Hahn, archt., 1112 Chestnut St., building 3 story, 80x200 ft. rein. con., brick and steel warehouse at 943 North 2nd St., for United Wholesale Grocery Co.

Md., Baltimore—Crouch & Leeser, 114 East Lombard St., receiving bids for 1 story, 81 x 200 ft., concrete and brick garage brick and concrete foundation, on York Rd. and 35th St. About $50,000. F. E. Beall, Gilmor St., archt.

O., Dayton—Until Apr. 26, by R. E. Gebhart, archt., 73 Callahan Bank Bldg., building 3 story, 60 x 80 ft. brick and rein.-con. factory, rein.-con. flooring, concrete foundation, on Franklin St., for Custer Specialty Co., 26-28 North Ludlow St.

Neb., Omaha—Until May 15, by Skinner Packing Co., 904 1st Natl. Bank Bldg., building 8 story, 99 x 132 ft. cold storage plant, on 12th and Douglas Sts. About $500,000. H. C. Christianson & Co., 7258 Union Ave., Chicago, archts. Noted Mar. 27.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Cambridge** (Boston P. O.)—C. F. Hathaway & Sons, 25 Richdale Ave., let contract building 1 story, 110 x 125 ft. brick and steel addition to bakery, rein.-con. flooring, concrete foundation, on Richdale Ave., to B. Fox, Inc., 15 Exchange St., Boston. About $60,000.

★**Mass., East Boston**—(Boston P. O.)—Simson Drydock Co. let contract building 1 story, brick and concrete machine and repair shop, concrete foundation, on Marginal St., to Dillaby Fireproofing Co., 101 Tremont St., Boston. About $50,000.

★**R. I., East Providence** (Providence P. O.)—Office, Standard Oil Co., 136 South Water St., Providence, let contract building 100 x 150 ft. brick and steel addition, concrete foundation, on Pawtaucket Ave., to H. D. Best & Co., 949 Bway., New York City. About $500,000.

★**R. I. Elmwood**—(Providence P. O.)—Office, etc.—Providence Body Co., 32 Eagle St., Providence, let contract building 1 story, 75 x 302 ft. mill construction factory, and 1 story, 30 x 30 ft. office, on Elmwood Ave. here, to J. F. Cole, 81 Niagara St., Providence. About $55,000.

★**R. I., Providence**—M. W. Norton, Page St., let contract building 1 story, 80 x 125 ft. mill construction garage, rein.-con. flooring, concrete foundation, on Dorrance St., to Interstate Constr. Co., 29 Weybosset St. About $30,000.

★**Conn., Bristol**—E. Ingraham Co., 392 North Main St., let contract building 5 story, 50 x 100 ft. rein.-con. addition to factory, rein.-con. flooring, concrete foundation to H. Wales Lines Co., 134 State St., Meriden. About $100,000. Noted Apr. 17.

★**Conn., Hartford**—Fassler & Silberman, 109 Commerce St., let contract building 3 story, 80 x 137 ft. mill construction warehouse, rein.-con. foundation, on Commerce St., to J. H. Grozier Co., 721 Main St. About $30,000.

★**Conn., New Haven**—Hemming Bros. Co., Inc., 205 River St., let contract building 1 story, 50 x 140 ft. brick and timber factory, rein.-con. flooring, concrete foundation, on River St., to Larkin-Carey Co., 166 Brewery St. About $25,000.

★**Conn., Stratford** (Bridgeport P. O.)—W. F. Chatlos, 1374 Barnum Ave., Bridgeport, will build brick and timber plant and lumber yard, concrete flooring and foundation, on West Broad St. About $50,000. Work will be done by day labor.

★**N. Y., Brooklyn**—M. Goetz, 241 26th St., will build 2 story, 60 x 119 ft. brick and steel garage, rein.-con. flooring, concrete foundation, on Atlantic Ave. and St. James Pl. About $45,000. Work will be done by day labor.

★**N. Y., Brooklyn**—Landcus Realty Co., 215 Montague St., will build 1 story, 50 x 100 ft. brick and steel garage, rein.-con. flooring, concrete foundation, on North 6th and Havemeyer Sts. About $50,000. Work will be done by day labor.

★**N. Y., Long Island City**—Repetti Inc., 514 West 36th St., New York City, let contract building 90 x 200 ft. brick and rein.-con. factory, rein.-con. flooring, concrete foundation, on Nott Ave. and Blvd., to Factory Constr. Co., 44 Court St., Brooklyn. About $350,000.

★**N. Y., New York**—C. J. Brooks, 872 9th Ave., will build 2 story, brick and steel garage, rein.-con. flooring, concrete foundation, at 605-19 West 56th St. About $28,000. Work will be done by day labor.

★**N. Y., New York**—Pictorial Review Co., 222 East 39th St., let contract building 12 story, 107 x 147 ft. brick and steel printing plant, rein.-con. flooring, concrete foundation, on 7th Ave. and 39th St., to G. B. Beaumont, 286 5th Ave. About $850,000. Noted Feb. 27.

★**N. Y., New York**—Z. T. Piercy, 207 Thomson St., will build 3 story, 39 x 100 ft. brick and steel garage, rein.-con. flooring, concrete foundation, at 125-129 West 3rd St. About $50,000. Work will be done by day labor. Noted Apr. 3.

★**N. Y., New York**—M. Rubin, 1969 Amsterdam Ave., will build 2 story, 100 x 203 ft., brick and steel garage, rein.-con. flooring, concrete foundation, on Jamel Pl. and 167th St. About $200,000. Work will be done by day labor.

★**Pa., Philadelphia**—A. Colburn & Co., 2238 North 10th St., let contract building 4 story, 60 x 220 ft., brick and timber factory, concrete foundation, on 10th and Nevada Sts., to F. L. Hoover & Sons, 1023 Cherry St. About $90,000. Noted Apr. 10.

★**Pa., Pittsburgh**—Simon Caplan Glantz Co., 145 Fullerton St., let contract building 2 story, 96 x 120 ft., concrete and brick bakery, concrete foundation, to H. Miller & Sons Co., May Bldg. About $60,000.

★**Md., Baltimore**—Maryland Color Printing Co., Holliday and Hillen Sts., let contract building 10 story, 82 x 120 ft., rein. con. and brick printing plant, on Holliday and Hillen Sts., to Consolidated Eng. Co., 243 Calvert Bldg.

★**Md., Relay**—Jones-Boardman Corp., 909 Fidelity Bldg., Baltimore, will build two 2 story, 100 x 300 ft., mill construction warehouses, concrete foundation, here (9 mi. from Baltimore). About $60,000. Work will be done by day labor.

★**O., Akron**—Akron Towel Supply Co., 423 Wabash Ave., let contract building 1 story, 74 x 122 ft. brick, steel and concrete laundry, at 423 Wabash Ave., to McShaffrey Co., 171 South Ford St. About $60,000.

★**O., Cleveland**—M. Bealls, 2711 Scoville Ave., let contract building 1 story, 36 x 90 ft. brick and timber addition to factory, to S. Newman, 1710 Drexel Ave. About $25,000. Noted Mar. 13.

★**O., Cleveland**—Dickey Grabler Co., 118 Noble Court, let contract building 1 and 2 story, 46 x 69 and 60 x 268 ft. brick, steel and concrete factory and office, rein.-con. flooring and concrete foundation, on Madison Ave. and West 104th St., to W. Dunbar Co., 8201 Cedar Ave. About $65,000. Noted Apr. 3.

★**Ill., Chicago**—Phipps Estate, 787 5th Ave., New York City, let contract building 1 story, 133 x 520 ft., brick and timber factory, rein.-con. flooring, concrete foundation, on 47th and Whipple Sts., to Stresenreuter Bros., 3020 South Halsted St. About $200,000. Marshell, Field & Co., 22 East Washington St., lessee. Noted Feb. 27.

★**Wis., Green Bay**—Automatic File & Index Co., 414 Bellin-Buchanan Bldg., let contract building 3 story, 120 x 180 ft., rein.-con. factory, on Pearl St., to L. M. Hansen Co., 113 West Walnut St. Cost between $50,000 and $60,000.

★**Wis., Racine**—Amer. Skein & Fdry. Co., Lakeside, let contract building 1 story, 140 x 160 ft., concrete, brick and steel foundry, concrete foundation, on Lakeshore Rd., to L. Nelson & Co., Robinson Bldg. About $50,000. Cost plus percentage basis.

★**Wis., Sheboygan**—Raab-Thomson Co. let contract building 2 story, [illegible] x 150 ft. rein.-con., brick and steel gar[illegible]e, rein.-con. flooring, brick foundation [illegible] 28 8th St., to Geuhlstorf & Heyer, Sheboygan.

★**Ore., Astoria**—Astoria Pulp & Paper Co. let contract building 40 x [illegible] ft. addition to paper mill, to P. Trull[illegible]ser. About $25,000. Noted Feb. 20.

★**Ore., Astoria**—Port of Astoria let contract constructing shed and building addition to and remodeling existing plant, to J. A. McEachern, $6165 and $[illegible],500 respectively. Noted Mar. 20.

★**Cal., Atwater**—Sunlit Fruit Co. will build 2 story, 120 x 175 ft. concrete and brick addition to cannery. About $100,000. Work will be done by day labor. Noted Mar. 27.

★**Cal., Bakersfield**—C. F. Hubbard, agt. for Maxwell Auto Co., 6560 Hollywood St., Los Angeles, let contract building garage, shop and sales building, 1 story, 74 x 122 ft., with 57 x 122 ft. wing, concrete and brick, on 23rd and I Sts., to Currie & Dulgar, Bakersfield, $30,000.

★**Cal., Fresno**—Western Meat Co., 744 P St., let contract building 2 story, 50 x 150 ft., brick and concrete packing and cold storage plant, rein.-con. flooring, concrete foundation, on Santa Fe Ave., to Lawson & Sampson, Crocker Bldg., San Francisco. About $38,000.

Que., Sherbrooke—Canadian Connecticut Cotton Mills, Ltd., Drummond Rd., let contract building 4 story, brick and steel addition, to Loomis-Dakin Constr. Co., 25 Belvidere St. About $50,000. Noted Feb. 27.

Buildings

PROPOSED WORK

Mass., Greenfield—School—Bd. Educ. plans to build school in Nash Mills Dist. and on Montague City Rd. About $[illegible],000.

R. I., Bristol—School—Town plans to build school. About $200,000. Address L. P. Colt, chn. com.

R. I., Providence—Hospital—Homeopathic Hospital of Rhode Island, 64 Jackson St., plans to build 3 story on Chalkstone Ave. About $100,000. Kendall, Taylor & Co., 93 Federal St., Boston, engrs.

Conn., Bloomfield—Church—Blue Hills Chapel, Blue Hills Ave., plans to build brick church on Euclid and Blue Hills Aves. About $50,000.

Conn., Bridgeport—Hotel—E. B. Caldwell, archt., 886 Main St., soon receives bids building 4 story, 170 x 194 ft. brick, concrete foundation, on Washington Ave. and Coleman St., for H. E. Frank, 426 Boston Ave. About $200,000. Noted Mar. 13.

Conn., Bristol—Church—Polish Catholic congregation, Hartford, plans to build on West Main St., here. About $60,000. J. J. Nilan, Hartford, bishop.

Conn., Bristol—Community-City plans to erect community building to include hall, stage and auditorium. About $200,000.

Conn., Bristol—School—Bd. Educ. plans to sell $100,000 bonds to build addition to Park St. School.

Conn., Enfield—Hospital—Town plans to build hospital. About $150,000. Address T. G. Alcorn, 25 South St., Thompsonville.

Conn., Manchester—Hospital—Town plans campaign to raise $150,000 to build memorial hospital on Main St.

Conn., New Haven—Hotel—A. Gingold 23 Church St., plans to build 5 story, 73x110 ft. brick and concrete, concrete foundation, on Orange St. About $100,000. C. J. Bailey, 94 Church St., archt.

Conn., New Haven—Hotel—S. Ladinsky, 40 Arch St., plans to build 4 story, on Chapel and Dwight Sts. About $100,000.

Conn., New Haven—Hotel—A. D. Mullen, 42 Church St., soon receives bids building 4-story, 70 x 155 ft. brick and concrete, concrete foundation, on Crown and High Sts. About $100,000. W. A. Donovan, 3 Colony St., Meriden, archt.

Conn., New London—Club House—Loyal Order of Moose, 39 Bank St., plans to build 4 story, brick and concrete. About $[illegible],000.

Conn., New London—Memorial—Connecticut College for Women, Mohegan Ave., plans to build 3 story memorial to the late F. H. Sykes. About $100,000. Address W. S. Swisher, 44 Tremont St.

Buildings (Continued)

N. Y., Albany — Theater — M. Spiegel, Strand Theater Bldg., soon receives bids building 2 story, 75 x 175 ft. brick and steel, concrete foundation, on Monroe St. About $150,000. T. W. Lamb, 644- 8th Ave., New York City, archt. Noted Mar. 20.

N. Y., Amsterdam—School—City election May 6 to vote on $125,000 bonds to build brick and concrete school on East Main St. Address H. Sherburne, c/o Bd. Educ.

N. Y., Brooklyn—Theater—H. Spiegel 308 Sheffield Ave., having plans prepared by Zipkes, Wolf & Kudroff, archt., 25 West 42nd St., New York City, building 2 story, 100 x 200 ft. brick and steel, concrete foundation, on Stone and Pitkin Aves. About $100,000.

N. Y., Buffalo—High School—Bd. Educ. having plans prepared by Essenwein & Johnson, archts., Ellicott Sq., building 3 story, 60 x 300 ft. brick and steel addition, concrete foundation, on Lafayette Ave. About $125,000.

N. Y., Dolgeville—School—City election soon to vote on $100,000 bonds to build school. Address Bd. Educ.

N. Y., Geneva—High School—Bd. Educ. having plans prepared building high school. About $300,000.

N. Y., New York—Theater—B. S. Moss Co., 729 7th Ave., soon lets contract building 2 story, 137 x 161 ft. brick and steel, concrete foundation, on 181st St. and Bway. About $475,000. De Rosa & Pereira, 110 West 40th St., archts.

N. Y., New York—Theater—823 Trinity Ave. Corp., 7 East 42nd St., soon receives bids building 2 story, 92 x 130 ft. brick and steel, concrete foundation on Fordham Rd. and Valentine Ave, (Bronx Boro.). About $75,000. M. Kramer, pres. H. J. Krapp, 116 East 16th St., archt.

N. Y., North Tonawanda—Club House—Elks Lodge soon receives bids building club house on Main and Sweeney Sts. About $100,000.

N. Y., Rochester—Club House—Rochester Knights of Columbus, Triangle Bldg., having plans prepared by W. V. Madden, archt., Rochester, building 70 x 270 ft. on southeast corner Chestnut and Lawn Sts. Cost between $150,000 and $175,000.

N. Y., Utica—School—Bd. Educ. having plans prepared by Gouge & Ames, archts., 70 Genesee St., altering and building addition to school on Elizabeth and Charlotte Sts. About $70,000.

N. J., Jersey City—Office—Armour & Co., 324 17th St., plans to build office and storage plant between 17th and 18th Sts. About $4,000,000.

N. J., Jersey City—Theater, etc.—J. M. Brennon and M. Schlesinger, Broad St. Theater Bldg., Newark, had tentative plans prepared by W. E. Lehman, archt., 738 Broad St., Newark, building 2 story moving picture theater, stores and offices on Newark Ave. and Frazer Pl., here.

N. J., Jersey City — Theater — Keith Theater Co., 174 Newark Ave., plans to build theater on Bay St. and Newark Ave. About $400,000.

N. J., Perth Amboy—School—St. Stephens congregation, 500 State St., having plans prepared by E. F. Durang ,archt., 1220 Locust St., Phila., building 3 story, 60 x 135 ft., stone, rock foundation. About $125,000.

N. J., Trenton — Hotel — Essenwein & Johnson, archts., Ellicott Sq., Buffalo, N. Y., preparing plans for 9 story, 110 x 200 ft. brick and steel, concrete foundation, here. About $1,000,000. Owner's name withheld.

Pa., New Castle—Church—Polish Catholic congregation soon lets contract building 94 x 101 ft. brick and stone, on Miller Ave. About $50,000. W. G. Eckles, Lawrence Savings & Trust Co. Bldg., archt.

Pa., Phila. — Club — Art Alliance, 1823 Walnut St., had plans prepared by R. A. Cram, archt., 15 Beacon St., Boston, building 6 story, 67 x 228 ft. concrete and brick, concrete foundation. About $1,000,000.

Pa., Phila.—Temple—Lu Lu Temple, 1337 Spring Garden St., receives bids in June, constructing new building on 22nd St. and Parkway. About $1,000,000. J. T. Windrim, Commonwealth Bldg., archt. Noted Mar. 20.

Pa., Pittsburgh—Y. M. C. A. soon receives bids constructing 4 story, 81 x 120 ft., steel and brick building, concrete foundation, on Center and Francis Sts. Plans include swimming pool and gymnasium. About $100,000. E. B. Lee, Chamber of Commerce Bldg., archt. Noted Apr. 10.

Pa., Wilkes-Barre — Church — Syrian Greek Catholic congregation, Blackman St., having plans prepared for 1½ story, 35 x 75 ft. rein.-con., steel and brick, concrete foundation, on High and Blackman Sts. About $52,000. C. R. Rinehimer, 10 Airy St., archt.

Md., Baltimore — Bank — Citizens Natl. Bank, Pratt and Hanover Sts., plans to build 2 story, concrete and steel on Light and Redwood Sts. About $200,000. A. D. Graham, pres.

Md., Baltimore—School—Blessed Sacrament congregation, York Rd. and Springdale Ave., soon lets contract building 2 story, 60 x 100 ft., rein.-con., steel and brick, brick and concrete foundation, on York Rd., Springdale Ave. and Star Lane. About $75,000. H. I. Kavanaugh, 913 North Charles St., archt.

Md., Baltimore—School—City plans to build 3 story, brick, concrete and stone, on Falls Rd. and 36th St. About $140,000. R. G. Osborne, City Hall, archt.

Md., Baltimore—Theater—Greater Baltimore Theater Co., 2706 Philadelphia Ave., having plans prepared by W. O. Sparklin, archt., 1402 Fidelity Bldg., for 1 story, 75 x 150 ft., concrete, steel and brick, on Belnord Ave. and Fayette St. About $80,000.

Fla., Jacksonville—Church—Presbyterian congregation plans to build church. About $50,000. C. T. Paxon, Mutual Life Bldg., mgr.

Fla., Miami—Hotel—Urmey Hotel, 13th St. and Ave. B., plans to improve and build 2 story addition. About $100,000.

Ala., Albany—Hotel—Albany Hotel Co., recently incorporated, plans to build hotel. About $125,000. J. Patterson, chn.

Miss., Columbus—Bank—Columbus Natl. Bank, having plans prepared by P. J. Krouse, archt., M & W Bldg., Meridan, for bank to replace one recently damaged by fire. Loss $250,000.

O., Cleveland—High School—F. Warner, archt., 768 Hippodrome Annex Bldg., receives bids in May, building 3 story, 125 x 200 ft. brick, steel and concrete, rock foundation, on Lee Rd. About $300,000.

O., Dayton—Club House—W. Kidder, Salem Pike, plans to build 2 story, 120 x 240 ft. timber and concrete, rein.-con. flooring, on Salem Pike. About $150,000. Schenck & Williams, Mutual Home Bldg., archt.

O., Toledo—Theater—Hurtig & Seaman, 1571 Bway., New York City, having plans prepared by Thal & Bruyere, archts., 747 Ohio Bldg., building 3 story, brick, steel and rein.-con. on St. Clair St., here. About $90,000.

Mich., Detroit—Office, etc.—Gen. Motors Corp., Boyer-Campbell Bldg., having plans prepared by A. Kahn, archt., Marquette Bldg., building 15 story, 336 x 482 ft. rein.-con. steel and brick office building, rein.-con. flooring, concrete foundation on Cass Ave. and West Grand Blvd., cost $5,250,000; 4 story, 60 x 480 ft. rein.-con., steel and brick research laboratory, rein.-con. flooring, concrete foundation, on Cass and Milwaukee Aves.; also 8 story rein.-con. steel and brick sales and service building, rein.-con. flooring, concrete foundation, on Cass and York Aves., to be used by Cadillac Motor Car Co., cost $1,500,000.

Ill., Chicago—Bank and Office—Merchants Loan & Trust Co., 112 West Adams St., and Illinois Trust & Savings Bank, 233 South La Salle St., plan to combine into one company, (name not yet announced), and erect 16 story building on 45,000 sq. ft. site on Jackson St. from Clark to La Salle Sts. About $2,000,000.

Ill., Chicago — Hospital — Ravenswood Hospital Assn., 1917 Wilson Ave., having plans prepared by W. H. Pruyn Jr., archt., 122 South Michigan Ave., building 6 story, 150 x 100 ft. rein.-con. and brick, rein.-con. flooring, concrete foundation, on Winchester and Wilson Aves. About $400,000.

Ill., Chicago—Hotel—C. H. Lott, Parkway Hotel, plans to build 14 story, 120 x 128 ft. brick, rein.-con. and steel, concrete foundation, on Lincoln Park West and Webster Ave. About $1,750,000. M. Friedstein, associated with G. H. Gottschalk, 111 West Washington St., archt.

Ill., Chicago—Merchandise—J. R. Magill & Co., 35 North Dearborn St., plans to build 2 story, 9 x 130 ft. display building with glass front, facing on both upper and lower levels of improved Michigan Ave. and East South Water St.

Ill., Chicago—Theater, etc.—A. E. Whitbeck, c/o W. W. Ahlschlager, archt., 111 West Washington St., soon lets contract building 3 story 135 x 150 ft., brick and timber, rein.-con. flooring, concrete foundation, on 63rd and Union Sts. About $700,000. Noted Mar. 27.

Ill., Chicago—Theater and Office—Jones Linick & Schaefer, Rialto Theater Bldg., had plans prepared by T. Ryan, archt., New York City, for 120 x 142 ft. buildings, 200 ft. high, on State and Monroe Sts. About $1,000,000.

Wis., Green Bay—Home—McCormick Memorial Home having plans prepared by Foeller & Schober, archts., 123 North Washington St., building home for aged. About $50,000 available.

Wis., Kenosha—School—Bd. Educ. plans to build 2 story, 140 x 180 ft., steel and timber grade school, rein.-con. flooring, concrete foundation. About $200,000. J. D. Chubb, 109 North Dearborn St., Chicago, archt.

Wis., Madison—Vocational and High School—F. L. Kroenberg, archt., 18 North Carroll St., receives bids about May 1, building brick addition on Johnson and Carroll Sts., for Bd. Educ. About $300,000. Noted Feb. 27.

Minn., Centerville—School—City having plans prepared by Magney & Tusler, archts., Builders Exch., Minneapolis, building 2 story, 50 x 62 ft., brick school. About $50,000. G. E. Burque, city clk.

Minn., Duluth — Business — United Yard & Terminal Assn., 5823 Oneida St., plans to build 3 story, 100 x 140 ft. brick, rein.-con. flooring, concrete foundation. About $100,000. C. C. Randall, pres.

Minn., East Grand Forks—High School—City having plans prepared by B. Keck, archt., Grand Forks, N. D., for school. About $100,000.

Minn., Moorhead—School—City soon receives bids building 2 story, brick and steel, brick foundation, in 3rd Ward. About $50,000. J. H. Hess, Moorhead, archt.

Minn., St. Paul—Barn—Comrs. Ramsey Co. plan to build 40 x 225 ft., brick and stucco stock barn. About $61,000. Buechner & Orth, 500 Shubert Bldg., archts.

Minn., St. Paul—Libraries—City having plans prepared by C. A. Hausler, city archt., City Hall, building 2 public libraries, brick, one on Marshall and Fairview Aves. and other on Jefferson and Oneida Sts. About $25,000 each.

Minn., Sauk Rapids—Church—Sacred Heart congregation plans to build church. About $75,000.

Minn., Stillwater—Church—First Church of Christ Scientist plans to build 1 story, 43 x 83 ft., brick, rock foundation. About $50,000. Magney & Tusler, Builders' Exch., Minneapolis, archts.

Minn., Willmar—High School—Bd. Educ. soon lets contract building 3 story, 100x150 ft., concrete and steel addition to high school, brick foundation. About $140,000. Tyrie & Chapman, 320 Auditorium St., Minneapolis, archts.

Neb., Omaha—Bath House—City having plans prepared by B. Kvenild, archt., City Hall, for 1 story, 60 x 200 ft., brick and concrete, at Carter Lake. About $60,000.

Neb., Omaha—High School of Commerce—Bd. Educ. had plans prepared by F. W. Clarke, archt., 623 Brandeis Bldg., building 3 story, 210 x 240 ft., high school, 2 story 50 x 244 ft., brick shop building and 90 x 150 ft., gymnasium. About $800,000.

Neb., Omaha—Home and School—Sisters of Mercy, 15th and Castelar Sts., having plans prepared by J. Latenser & Sons, archts., 632 Bee Bldg., for 3 story, 80 x 100 ft., concrete, on 18th and Cass Sts. About $200,000.

Neb., Omaha—Police Station and Jail—City plans to build 3 story, 86 x 132 ft. rein.-con. and brick, rein.-con. flooring, concrete foundation, on 11th and Dodge Sts. About $200,000. G. L. Fisher, 1529 City Natl. Bank, archt.

Mont., Billings—Church—St. Johns' Lutheran congregation had plans prepared by T. Thorsen, archt., Forest City, Ia., for church. About $50,000. O. Skilbred, pastor.

Mont., Bozeman — Hospital — Montana Osteopath Society plans to build hospital. About $75,000. A. Dean, interested.

Mo., St. Louis—Auditorium—Bd. Pub. Serv. plans election soon to vote on $1,000,000 bonds to build auditorium. L. R. Bowen, city engr.

Buildings (Continued)

Mo., St. Louis — High School — Rosatti-Kain High School, Grand and Lucas Aves., purchased site and plans to build high school. About $150,000. J. J. Glennon, archbishop.

Mo., St. Louis—Hog House—Swift & Co., 39th and Papin Sts., receives bids about Apr. 21, building 30x300 ft., steel and concrete addition. About $72,000. H. E. Poertner, c/o owner, engr.

Okla., Beggs—School—Bd. Educ. plans to build brick and stone. About $55,000. J. Hicks, 19½ West Main St., Oklahoma, archt.

Okla., Tulsa—High School—City voted $135,000 bonds to build high school including gymnasium.

Okla., Tulsa—Hotel—J. R. Brauns plans to build 125 room hotel. Thompson & Flemming, Tulsa, archts.

Utah, American Fork—School—City plans election soon to vote on $150,000 bonds, to build school in Alpine School Dist.

Wash., Aberdeen—Club House—Aberdeen Soldiers and Sailors League plans to build club house. About $50,000. R. Mack, pres.

Ore., Astoria—Hotel—F. White, archt., Chamber Commerce Bldg., Portland, preparing plans for 50 x 150 ft. brick, here. About $60,000. Owner's name withheld.

Ore., Corvallis—Laboratory—Oregon Agricultural College having plans prepared by J. Bennes, archt., Chamber Commerce Bldg., Portland, for 2 story, 56 x 220 ft. brick and concrete engineering laboratory. State Legislature appropriated $60,000 for same.

Cal., El Segundo—School—School Trustees having plans prepared by Train & Williams, archts., 226 Exch. Bldg., Los Angeles, building brick school, concrete foundation, to include auditorium, manual training departments, gymnasium, etc. About $90,000. Election will be held Apr. 28 to vote on bonds for project.

Cal., Fresno — Church — Methodist Episcopal congregation plans to build, here. About $100,000. H. M. Du Bose, bishop.

Cal., Hollister—School—Trustees Grammar School Dist. having plans prepared by H C. Smith, archt., Humboldt Bank Bldg., San Francisco, building 1 story, rein.-con. and brick, rein.-con. flooring, concrete foundation. About $125,000.

Cal., San Francisco—Bank—Bank of Italy, Montgomery and Clay Sts., having plans prepared by Bliss & Faville, archts., Balboa Bldg., building 6 story, rein.-con. and brick, on Powell and Eddy Sts. About $500,000.

Cal., San Francisco—School—Bd. Educ. plans to build on Pacific Ave. and Broderick St. About $200,000. G. E. Gallagher, pres.

Cal., San Francisco—School—St. Ann's congregation having plans prepared by W. D. Shea, archt., 244 Kearney St., building 2 story rein.-con., rein.-con. flooring, concrete foundation on 14th Ave. and Irving St. About $60,000.

N. S., Halifax—Hospital—Dominion Government, Ottawa, Ont., soon lets contract for 3 story, 41 x 109 ft. stucco and timber ward building; also altering present building at Bellevue Military Hospital here. About $60,000. R. C. Wright, c/o Dept. Pub. Wks., Ottawa, engr.

Que., St. Angus—Church—L. Auger, archt., 39 St. Johns St., Quebec, soon lets contract building 40 x 110 ft. brick and steel, concrete foundation, for Roman Catholic congregation. About $72,000. J. A. Provencher, pastor.

Ont., London—Custom House—Dept. Pub. Wks., Ottawa, soon receives bids building here. About $400,000. R. C. Wright, c/o Dept. Pub. Wks., engr.

Ont., Orillia—Bank—Dominion Bank of Canada, King St., Toronto, having plans prepared by J. M. Lyle, archt., 19 Avondale Rd., Toronto, building brick and stone here. About $50,000.

Ont., Ottawa—Market—Bd. Control receives bids in summer bulding market near Ward Market Sq. About $150,000. A. F. MacCallum, City Hall, engr.

Ont., Ottawa—Schools—Dept. Educ., Toronto, soon receives bids remodeling and repairing Provincial Normal and Normal Model Schools on Elgin St., brick and timber, rock foundation. About $65,000. J. Leath, supt.

Ont., Ottawa—Store—H. J. Daly, Connaught Pl., having plans prepared building 6 story, 75 x 200 ft. on Spark St. About $300,000.

Ont., Renfrew—Church—Roman Catholic congregation having plans prepared by Millson & Burgess, archts., 209 Sparks St., Ottawa, building church. About $65,000.

Sask., Saskatoon—Store—Barries, Ltd., purchased site on 2nd Ave. and 22nd St. and plans to build store. About $100,000.

BIDS DESIRED

Mass., Foxboro—Hospital—Until Apr. 21, by State Comn. Mental Diseases, State House, Boston, building 3 story, 50 x 160 ft. brick addition, concrete foundation, on state grounds here. J. McLaughlin, 88 Tremont St., Boston, archt. Noted Jan. 16.

N. Y., Albany—Laboratory—Until Apr. 30, by H. M. Biggs, comr. of health, State Dept. Health, Capitol, building laboratory, etc. L. F. Pilcher, Capitol, state archt.; advertised in this issue.

N. Y., Long Island City—School—Until Apr. 22, by C. B. J. Snyder, supt. school buildings, Municipal Bldg., New York City, building P. S. No. 3, 3 story, 105x108 ft., brick and steel, concrete foundation, on Colonial Ave. between Livingston and Meteor Sts., Queens Boro. About $200,000. Noted Mar. 27.

N. Y., Newark—Cottage—Until May 8, by S. F. S. Armstrong, pres. bd. trustees, State Custodial Asylum for Feeble Minded Women, building cottage here. L. F. Pilcher, Capitol, Albany, state archt.; advertised in this issue.

O., Akron—School—Until May 5, by J. F. Barnhart, clk. bd. educ., Forge and College Sts., building 2 story, 100 x 160 ft. brick school annex. T. R. Ridley, Cottage Pl., archt.

Ind., Gary—Theater—D. S. Klafter, archt., 64 West Randolph St., receiving bids for 1 story, brick and steel, rein.-con. flooring, concrete foundation, on 16th St. and Bway. About $125,000. Noted April 3.

Mich., Flint—Hotel—Until May 12, by Essenwein & Johnson, archts., Ellicott Sq., Buffalo, N. Y., building Duran Hotel, here, 6 story, 100 x 200 ft., concrete and steel, concrete foundation, for Citizens' Hotel Co., Ellicott Sq., Buffalo, N. Y. About $850,000. Noted Dec. 26.

Wis., Racine—City Hall—Until May 3, by Bd. Pub. Wks., remodeling 3 story, brick and steel, on Main St. About $60,000. A. A. Guilbert, Robinson Bldg., archt.

Minn., Campbell—School—Until Apr. 28, by C. P. Carlson, clk. bd. educ., building 2 story, brick, brick foundation. About $75,000. G. L. Lockhart, 391 Endicott Bldg., St. Paul, engr.

Minn., Kearney—School—Until May 15, by E. F. Broomhall, archt., Alworth Bldg., Duluth, building two 2 story, rein.-con., brick and steel grade schools, rein.-con. flooring, concrete foundation. About $50,000 each.

Okla., McAlester — High School — Until May 12, by Bd. Educ., building 2 story, 100 x 213 ft., rein.-con. and brick, rein.-con. flooring. About $240,000. Noted Mar. 20.

Ont., Iroquois—K. G. Rea, archt., Beaver Hall Hill, Montreal, Que., receiving bids for 2 story, 45 x 80 ft. stone and steel, concrete foundation, here, for Molson Bank, St. James St., Montreal. About $50,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Conn., Hartford** — Hotel — D. Kaplan, c/o Berenson & Moses, archts., 26 State St., will build 3 story, 60 x 120 ft. brick and concrete, concrete foundation, on Buckingham St. About $75,000. Work will be done by day labor. Noted Mar. 6.

★**Conn., Hartford**—Hotels—A. K. Morrissey, 401 Farmington Ave., will build two 3 story, 34 x 77 ft. and 34 x 89 ft. brick and timber hotels, concrete foundation, on Imlay St. About $100,000. Work will be done by day labor.

★**Conn., Hartford**—Hotel—J. J. Wall, 9 Clinton Ave., will build 4 story, 22 x 155 ft. brick, concrete foundation, on Clinton St. About $65,000. Work will be done by day labor.

★**Conn., New Haven**—Hotel—H. A. Leonard and others, 902 Chapel St., let contract building 10 story, 100 x 120 ft. brick and steel, rein.-con. flooring, concrete foundation, on College and Chapel Sts., to J. W. Leonard & Co., 902 Chapel St. About $400,000. Noted Mar. 13.

★**N. Y., Huntington Park** (Huntington P. O.)—Museum—A. Heckscher, 56 East 42nd St., New York City, let contract building 1 story, 44 x 113 ft. brick and marble, concrete foundation, here, to J. G. Deisler, Inc., 105 West 40th St., New York City. About $160,000. Noted Mar. 13.

★**N. Y., New York**—Office—Chicago Pneumatic Tool Co., 343 South Dearborn St., Chicago, let contract building 12 story, 50 x 90 ft. brick and steel, concrete foundation, at 6-8 East 44th St., to Westinghouse, Church, Kerr, 37 Wall St. Cost plus percentage basis. Noted Mar. 6.

★**Pa., Phila.**,—Drill Shed—Armory Bd. of State of Pa., Capitol, Harrisburg, let contract building 1 story, 154 x 282 ft., rein.-con., steel and brick, rein.-con. flooring, concrete foundation, on Lancaster Ave., here, to G. F. Pawling & Co., 1432 South Penn Sq. About $215,000. Noted Mar. 27.

★**Pa., Pittsburgh**—Office—Peoples Natl. Gas Co., 6th Ave., let contract building 11 story, 20 x 110 ft. concrete, steel and brick addition, concrete and brick foundation, to Thompson-Starrett Co., 2nd Natl. Bank Bldg. About $280,000.

★**Pa., Scranton**—Buildings—Poor Dist. let contract for additions and constructing new buildings at Hillside Home, to Ireis Bros., Scranton Real Estate Bldg.; $72,043.

Md., Baltimore—Church—Gregory Memorial Baptist congregation, Lyman Ave. and York Rd., received bids building 1 story, 40 x 82 ft., rein.-con., steel and brick, stone and concrete foundation, on York Rd. near Bellona Ave., from E. Eyring & Son, 3612 Fait Ave., J. Waters Bldg. Co., 23 East Centre St.; C. L. Stockhauser Co., Gay and Waters St. and Hicks, Tase & Norris, Inc., 106 Madison Ave. About $50,000.

★**O., Cleveland**—Office—"See Industrial Works."

★**O., Euclid**—Schools—Bd. Educ. let contract building two 2 story, brick, steel and rein.-con., concrete foundation, on Berwick and Noble Rds., to Drummond & Miller Co., Guardian Bldg., Cleveland. $100,000 and $75,000 respectively.

★**O., Kunkle**—High School—Bd. Educ. let contract building 2 story, brick, steel and concrete, to J. B. Manor & Son Co., Grand Rapids. About $60,000.

★**Mich., Detroit** — Mercantile — W. H. Turner, 512 Moffat Bldg., let contract building, 4 story, 40 x 100 ft., brick and rein.-con., rein.-con. flooring, concrete foundation, on Michigan Ave. and Washington Blvd., to H. G. Christman Co., 315 Stevens Bldg. About $150,000. Noted Apr. 10.

★**Mich., Detroit**—Office—Chicago Pneumatic Tool Co., 343 South Dearborn St., Chicago, let contract building 5 story, 60 x 181 ft. rein.-con. and steel, rein-con. flooring, concrete foundation, here, to Westinghouse, Church, Kerr, 37 Wall St., New York City. Cost plus percentage basis.

★**Ill., Chicago**—Office—Chicago Union Station Co., 600 West Jackson Blvd., let contract constructing 14 story, 180 x 389 ft. brick and steel mail order building, concrete foundation, on Randolph and Canal Sts., to J. Griffiths & Son Co., 112 West Adams St. About $2,500,000. Noted Mar. 20.

Ill., Chicago—School—Bd. Educ., 5 South Dearborn St., let contract building 3 story, 105 x 110 ft. brick and steel addition to Nash School, rein-con. flooring, concrete foundation, on Erie St. and Lamon Ave., as follows: masonry, to J. L. Connelly, 133 West Washington St., $48,100; structural iron, to Wendnagel & Co., 600 West 22nd St., $21,375; fireproofing, to Illinois Fireproof Constr. Co., 209 South La Salle St., $15,921. Noted Mar. 27.

★**Ill., Chicago**—Store and Office—L. E. Waterman & Co., 191 Bway., New York City, let contract building 7 story, 28 x 148 ft. brick, steel and rein.-con., rein.-con. flooring, concrete foundation, at 127-129 South State St., to Holabird & Roche, 104 South Michigan Ave. About $225,000. Noted Mar. 27.

★**S. C., Paris**—Y. W. C. A., 600 Lexington Ave., New York City, let contract building 2 story, 100 x 150 ft. brick and timber hostess house, here, brick foundation, to Tullis & Blanchart, 32 East 42nd St., New York City. About $55,000.

Buildings (Continued)

★**N. C., Fayetteville**—Hospital—R. L. Pittman let contract building 4 story brick, concrete flooring, to T. T. Thain, Fayetteville. About $60,000.

★**Cal., Los Angeles**—Laboratory—Radium & Oncologic Institute, Investment Bldg., let contract building 2 story, 38 x 65 ft. with 26 x 50 ft. wing, rein.-con. on 6th St. and Lucas Ave., to Winter Constr. Co., 2141 Sacramento St. About $50,000.

★**Cal., Santa Barbara**—Theater, Store and Office—E. A. Johnson will build 1 and 2 story, 65 x 150 ft., rein.-con. and brick, concrete foundation, on West Canon Perdido St. About $50,000. Work will be done by day labor.

★**Que., Joliette**—School—School Comn. of Ville de Joliette let contract building 3 story, 60 x 160 ft., concrete, stone and brick, on St. Bartholemy St., to Fournier Bros., 89 2nd Ave., Lachine; $91,500.

★**Que., St. Anne de Bellevue**—Hospital—Dept. Pub. Wks., Ottawa, Ont., let contract for recreation building at military hospital here, to J. Quinlan & Co., 1165 Greene Ave., Montreal, $55,600; Physiotherapy building, to Quinlan & Robertson, 260 St. James St., Montreal, $68,565.

★**Que, Ste. Agathe**—Sanitorium—Dept. Pub. Wks. & Labor, Quebec, let contract constructing of rein.-con. and steel buildings at Laurentian Sanitorium, here, to J. Gosselin, 82 Dalhousie St., Quebec; $253,926. Noted Mar. 6.

★**Ont., Sydenham**—Hospital—Dept. Pub. Wks., Ottawa, let contract altering and building additions to Military Hospital, here, to W. H. Harvey, Kingston. About $75,000. Noted Mar. 6.

★**Man., Winnipeg**—Hospital—Dept. Pub. Wks., Ottawa, let contract building hospital here, to Carter-Halls-Aldinger Co., 1010 Union Bank Bldg. About $172,000. Plans include medical officer's residence, nurses' quarters, orderlies' barracks, recreation and storage buildings.

Federal Government Work

PROPOSED WORK

R. I., Coddington Point—Quarters—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build double quarters, here; Spec. 3862. About $15,000.

Pa., Ft. Mifflin—T. N. T. Plant—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build here, steel frame and stucco walls. Spec. 3866. About $150,000.

D. C., Wash.—Hospital—Dist. Comrs., Dist. Bldg., Wash., receive bids about June 1, building foundation, power house and tunnel work in connection with new Gallinger Municipal Hospital. Plans include 21 buildings. About $500,000 appropriated for project. Noted Mar. 27.

D. C., Wash.—Swimming Pools—Dist. Comrs., Dist. Bldg., rejected bids building swimming pools at Cardozo Playground, 1st and H Sts., S. W., and at Reservation 126, on Virginia Ave., and 10th St., S. W. Noted Apr. 3.

Va., Camp Humphries—Buildings—War Dept. will ask Congress for appropriation to erect concrete and brick buildings for permanent engineers' camp. Contract will run into millions.

Va., Hampton Roads—Hangars, Landing Pier, Pavement, Roads, etc.—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build here; Spec. 3818. About $560,000.

Va., Hampton Roads—Storehouse—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build 6 story, rein.-con. here; Spec. 3859. About $800,000.

Va., Hampton Roads—Storehouse—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build 3 story, rein.-con. aircraft storehouse here; Spec. 3860.

Va., Hampton Roads—Storehouse—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build 1 story, rein.-con., here; Spec. 3861.

Ill., Great Lakes—Machine Gun Range—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build here; Spec. 3865. About $10,000.

Mont., Libby—Bureau Pub. Rds., U. S. Dept. Agriculture, Post Office Bldg., Portland, Ore., plans to grade 40 mi. Libby-Rexford Rd., Lincoln Co. About $80,000.

Tex., Galveston—Air Station—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to develop air station, here. Plans include barracks, mess hall, officers' quarters, administration building, dispensary, guard house, roads, fence and railroad connections, hangars, paving, sewer system, beach, etc. Spec. 3864. About $758,000.

Wash., Raymond—Dredging—U. S. Dist. Engr., Seattle, soon receives bids dredging river channel and filling tidelands at Willapa Harbor. About $500,000.

Ore., Portland—Roads—Bureau Pub. Rds., U. S. Dept. Agriculture, Post Office Bldg., soon lets contract building McClellan Pass Natl. Rd., Rainier Natl. Forest, Pierce Co., involving 10 mi. grubbing, 36 acres clearing, 12,600 cu.yd. rock and 50,000 cu.yd. common excav.; Blewett Pass Natl. Forest Rd., Chelan and Kittitas Counties, 8.4 mi. grubbing, 33 acres clearing, 25,000 cu.yd. rock and 125,000 cu.yd. common excav., etc. L. I. Hewes, dist. engr.

Ore., Portland—Road—Bureau Pub. Rds., U. S. Dept. Agriculture, Portland, plans to construct Mt. Hood loop forest road, 37.2 mi. long, 16 ft. wide. About $514,000, cost to be borne by Government and state. L. I Hewes, dist. engr.

BIDS DESIRED

Mass., New Bedford—Dredging—Until May 15, by U. S. Eng. Office, Newport, R. I., dredging harbor here; advertised in this issue.

Conn., Bridgeport—Alterations to Post Office—Until May 6, by J. A. Wetmore, act. superv. archt., treas. dept., Wash., D. C., for alterations to post office here.

N. Y., New York—Removing Wreck—Until May 1, by U. S. Engr. Office, 39 Whitehall St., removing wreck of "Steamship Serantes" in upper Bay; advertised in this issue.

N. J., Cape May—Cold Storage Building—Until April 28, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building at section base, here; Spec. 3685. About $50,000; $10 deposit required for plans and specifications. Noted Nov. 28.

Md., Baltimore—Light House—Until Apr. 22, by Light House Supt., Baltimore, building Cherrystone Bar Light, Va.

Md., Baltimore—Rip Rap—Until May 15, by Supt. Lighthouses, Baltimore, furnishing and placing rip rap stone at light stations in Chesapeake Bay and Potomac River; advertised in this issue.

D. C., Wash.—Galvanizing Plant—Until Apr. 21, by Bureau Yards & Docks, Navy Dept., building here; Spec. 3772. About $110,000.

D. C., Wash.—Grading—Until Apr. 21, by Bureau Yards & Docks, Navy Dept., Wash., D. C., grading west extension of Navy Yard, here; Spec. 3830. About $8000. Noted Mar. 13.

W. Va., Charleston—Fence—Until May 5, (change of date), by Bureau Yards & Docks, Navy Dept., Wash., D. C., building here; Spec. 3789. About $25,000; $10 deposit required for plans and specifications. Noted Feb. 6.

Ga., Brunswick—Hangars—Until Apr. 28, by Bureau Yards & Docks, Navy Dept., Wash., D. C., completing 3 steel seaplane hangars; Spec. 3792. About $75,000.

Fla., Pensacola—Sewer Discharge Pipe—Until May 5, by Bureau Yards & Docks, Navy Dept., Wash., D. C., extending 8 in. submerged discharge pipe; Spec. 3267. About $12,000; $10 deposit required for plans and specifications. Noted Aug. 1.

Idaho, Sand Point—Post Office—Until May 22, by J. A. Wetmore, act. superv. archt., treas. dept., Wash., D. C., building here.

PRICES AND CONTRACTS AWARDED

(★Indicates Award of Contract)

N. H., Portsmouth—Building Addition—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids building addition to Building No. 42, for spar shop,

(1) net price and time for work complete in accordance with specification and drawings;

(2) net price to be added to or deducted from amount stated under (1), if wood roof sheathing and asbestos roofing is used on main building instead of cast in place of gypsum slab construction and asbestos roofing;

(3) net price to be added to or deducted from amount stated under (1) if wood roof sheathing and slate roofing is used on main building instead of cast in place gypsum slab construction and asbestos roofing, from

Hughes Foulkrod Co., 1406 Commonwealth Bldg., Phila. Pa., (1) $62,000; (2) $1472; (3) $1014.

Oscawanna Bldg. Co., 101 Park Ave., New York City, (1) $67,470, (140 days); (2) deduct $1600; (3) deduct $200.

Levering and Gargue, 552 West 23rd St., New York City, (1) $67,977, (140 days); (2) deduct $1250; (3) deduct $200. Noted Apr. 10.

Mass., Boston—Cranes—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Apr. 14, furnishing 6 electric traveling bridge cranes for extension to shop and foundry, here,

(1) net price and time for entire work, consisting of two 50-ton cranes with auxiliary girder and spacing struts for extension 42-A; one 50-ton crane for extension 42-B, one 30-ton crane for extension 42-C, and two 10-ton cranes for extension 42-B all complete and in accordance with drawings and specification;

(2) net price and time to be deducted from price and time stated under (1), for omission of two 50-ton cranes including auxiliary girder and spacing struts, complete, in accordance with drawings and specification (for extension 42-A);

(3) net price and time to be deducted from price and time stated under (1) for omission of one 50-ton crane, complete in accordance with drawings and specification (for extension 42-B);

(4) net price and time to be deducted from price and time stated under (1) for omission of one 30-ton crane, complete, in accordance with drawings and specifications (for extension 42C);

(5) net price and time to be deducted from price and time stated under (1) for omission of two 10-ton cranes, complete, in accordance with drawings and specifications (for extension 42B), from

Whiting Fdry. & Equipment Co., 157th and Lathrop Sts., Harvey, Ill., (1a) $72,065, (110 days); (2a) $29,140, (10 days); (3a) $14,850; (4a) $17,910; (5a) $10,180.

Manning, Maxwell & Moore, 119 West 40th St., New York City, (1a) $72,455, (70 days); (2a) $29,885, (10 days); (3a) $14,887, (5 days); (4a) $17,208, (5 days); (5a) $10,475.

Cleveland Crane & Engr. Co., Wickliff, O., (1a) $78,695, (150 days); (2a) $31,335, (20 days); (3a) $16,860, (30 days); (4a) $18,230, (30 days); (5a) $12,270, (50 days.) Noted Apr. 10.

Mass., Chatham—Sewage Disposal System, etc.—Bureau Yards & Docks Navy Dept., Wash., D. C., received bids Apr. 14, building spetic tank, sewage disposal system, etc., at Naval Air Sta.

(1) net price and time for work, complete, in accordance with drawings and specification, excluding fill required as per (2);

(2) unit price per cu. yd. for fill, measured in excavation, required adjacent to filler bed, as directed by officer in charge based upon a total amount of 25,000 cu. yds., from

H. S. Roberts & Co., 1123 B'way., New York City, (1) $28,425 (75 days); (2) $0.50.

Coleman Bros., 1 Marginal St., Chelsea, Mass., (1) $39,700, (70 days); (2) $1.10.

C. M. Leach, P. O. Box 2285, Boston, Mass., (1) $47,997, (90 days); (2) $1.35. Noted Apr. 3.

★**R. I., Newport**—Quay Wall, etc.—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building concrete quay wall and fill at Naval Training Sta., to W. L. Miller & Co., 171 Alford St., Boston, Mass., $133,739 (149 days). Noted Apr. 3.

R. I., Providence—Remodeling Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids Apr. 8, remodeling post office, here, from Hope Bldg. Co., 87 Weybosset St., $33,746; J. Miles & Son, 393 Main St., Worcester, Mass., $33,980; E. Turgeon, 86 Weybosset St., $34,973. Noted Apr. 3.

★**N. Y., Brooklyn**—Concrete Floors, Sewer and Water Systems—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building at Naval Air Sta., here, to E. F. Monaham, 195 Hastings St., Manhattan Beach, $8546, (30 days).

★**N. Y., New York**—Fuel Oil—U. S. Shipping Bd., Wash., D. C., let contract furnishing and delivering 3,500,000 bbl. fuel oil here, to Standard Oil Co. of New Jersey, foot Claremont Ave., Jersey City, N. J., $1.15 per bbl. for Grade No. 1 "B"; $.98 for No. 1 "C"; $1.22 for No. 2 "B"; $1.05 for No. 2 "C."

★**N. Y., Wards Island**—Electrical Conduit and Switchboard—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract extending underground electric system and installing addition to switchboard at U. S. Naval Hospital, to E. S. Downs Co., 9 Campbell St., Newark, N. J., $3640, (90 days). Noted Apr. 10.

Pa., Phila.—Gasolene Supply System—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Apr. 14, building at Navy Yard, here,

(1) net price and time for work, complete, in accordance with drawings and specificatons:

Federal Government Work (Continued)

(2) net price and time to be added to or deducted from (1) for each round pile more or less than number shown, on drawings, based on a length of 50 ft. from point to cut-off;

(3) net price and time to be added to or deducted from (1) and (2) for each foot of length added to or deducted from length of 50 ft. for each round pile, from

Mansfield & Savage, 135 William St., New York City, (1) $10,000, (60 days); (2) $50, (3) $1.00.

C. Meades & Co., 38 Park Row, New York City, (1) $12,312, (time as specified).

G. F. Pawling & Co., 1432 South Penn. Sq., (1) $13,000, (70 days); (2) add $50, deduct $20; (3) add $1.65, deduct $0.15. Noted Apr. 3.

★**Pa., Phila.**—Layout for Quartermaster Department—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building yard layout, to E. C. Fish & Co., 704 Real Estate Trust Bldg., $32,700. Noted Mar. 13.

★**Md., Baltimore**—Fuel Oil—U. S. Shipping Bd., Wash., D. C., let contract furnishing and delivering 500,000 bbl. fuel oil here, to Standard Oil Co. of New Jersey, foot Claremont Ave., Jersey City, N. J., $1.15 per bbl. for Grade No. 1 "B"; $.98 for No. 1 "C"; $1.22 for No. 2 "B"; $1.05 for No. 2 "C."

★**D. C., Wash.**—Grading—Dist. Comrs., Dist. Bldg., Wash., let contract grading Kearney St., N. E., from 18th to 20th Sts.; Vista St., N. E., from Franklin St. to South Dakota Ave., to G. Hyman, 2209 F St., N. W., $.74 and $.59 per cu.yd. respectively; grading Central Ave. to point 200 ft. south of Brentwood Rd.; 13th St. from Quincy to Randolph St. and 13th St. and Kansas Ave. from Quincy St. to Spring Rd., to G. B. Mullin, 3329 14th St., N. W., $.63, $.48 and $.48 per cu.yd. respectively.

★**Va., Alexandria**—Cranes—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract installing 6 "I" beam electric traveling cranes at Naval Assembly plant, to Cameron Eng. Co., East Stroudsburg, Pa., $7940, (90 days). Noted Apr. 3.

Va., Norfolk—Dredging and Filling—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Apr. 14, dredging and filling at Navy Yard here,

(1) net price per cubic yard, place measurement, for dredging, as called for by specification, and accompanying drawing, using hydraulic dredges and disposing of selected material as fill in fitting out pier and behind quay wall, balance of material being deposited on areas "H" or "J." Government reserves right under this item to omit fill in fitting out pier and behind quay walls, and to require all material to be deposited on areas "H," "I" or "J.";

(2) net price per cubic yard, scow measurement for dredging, as called for by specification and accompanying drawing, material being disposed of on authorized dumping ground other than fitting out pier and behind quay walls;

(3) net price per cubic yard for filling in fitting out pier and behind quay walls, measured as fill, in accordance with specification and accompanying drawing, it being understood that award under this item is contingent upon award under (2), and further that work is to be done under this item shall be included under specified rate named in paragraphs 14 and 15, as modified by stated comparison between "Place" and "Scow" or "Fill" measure specified in paragraph 41;

(4) net price for removal of Wadham's Wharf and structural elements contained in cofferdam, in accordance with specification and accompanying drawing, from

Morris & Cummings Dredging Co., 17 State St., New York City, (2) $0.285, (3) $0.285, (4) $4000.

Maryland Dredging & Contg. Co., 1515 Fidelity Bldg., Baltimore, Md., (2) $0.45, (365 days); (3) $0.45 (365 days); (4) $5000, (30 days).

★**Va., Norfolk**—Fuel Oil—U. S. Shipping Bd., Wash., D. C., let contract furnishing and delivering 1,500,000 bbl. fuel oil here, to Standard Oil Co. of New Jersey, foot Claremont Ave., Jersey City, N. J., $1.15 per bbl. for No. 1 Grade "B"; $.98 for No. 1 "C"; $1.22 for No. 2 "B"; $1.05 for No. 2 "C."

★**Va., Norfolk**—Timber Wharf—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building here, to Sanford & Brooks Co., 24 Commerce St., Baltimore, Md., $67,750, (100 days). Noted Apr. 10.

BRIDGE—CHICAGO, ILL.

Bids were received by Commissioner of Public Works, March 20th, for constructing substructure of bridge over north branch of Chicago River on Kimball Ave., from (A) Paschen Bros., 111 West Washington St.; (B) Fitzsimons Connel Dredge & Dock Co., 10 South La Salle St.; (C) Concrete Dock Construction Co., 133 West Washington St., superstructure, (A) Overland Construction Co., 39 South La Salle St.; (B) Roeffer & Co., 133 West Washington St.; (C) Paschen Bros., 111 West Washington St. The unit bids were as follows:

	A	B	C
Superstructure complete (lump sum)	$20,825.00	$21,766.00	$22,600.00
800 cu.yd. excavation	2.55	2.15	1.50
690 cu.yd. concrete	17.25	15.50	12.70
3,200 ft. Norway piles	.27	.30	.24
2 test piles	75.00	150.00	110.00
1,700 ft. creosoted oak piles	.65	.80	.74
4,200 ft. driving piles	.27	.35	1.25
17,000 ft. creosoted oak timber	190.00	160.00	160.00
5,500 lb. reinforcing steel bars	.10	.06	.06½
7,300 cu.yd. filling and grading	.60	.60	.60
1,700 sq.yd. macadam paving	2.00	2.10	2.60
730 sq.yd. cinder and limestone sidewalk	1.75	2.10	1.00
1,300 ft. wood curbs	.35	.35	.40
910 ft. gas pipe railing	4.50	5.25	4.40
5 cu.yd. brick masonry	22.50	35.00	27.00
4,000 lb. structural steel	.12	.07	.09
6 catch basins	80.00	100.00	78.00
1 manhole	150.00	125.00	220.00
2 cast iron covers	30.00	30.00	30.00
340 cu.yd. black earth	2.00	1.75	2.60
Extended totals	$57,371.00	$57,872.00	$59,318.00

	A	B	C
Cofferdams, etc. (lump sum)	$25,000.00	$14,500.00	$20,000.00
4 test piles	110.00	100.00	100.00
15,000 ft. piles	.24	.30	.26½
10,500 ft. driving piles	.53	.28	.50
4,500 cu.yd. excavation	1.20	2.75	2.25
2,700 cu.yd. filling and grading	.65	.60	.60
100 cu.yd. concrete in vaults	12.00	20.00	22.00
2,900 cu.yd. concrete in abutments and retaining walls	* .43	13.50	13.25
7,300 cu.ft. concrete in piers below level at pier struts	.92	1.15	1.60
100 cu.ft. removal of boulders	.60	.01	.75
380 cu.ft. removal of bedrock	.45	.50	.85
1,000 cu.ft. concrete in pier shafts	.40	.01	.25
62,000 lb. reinforcing steel	.06	.07	.08
116,000 ft. yellow pine timber	86.00	92.00	114.00
16,000 ft. oak timber	118.00	110.00	115.00
800 ft. gas pipe railing	4.40	5.50	4.85
400 ft. concrete curb and gutter	1.10	1.50	2.00
600 ft. timber curb	.40	.50	.40
1,800 sq.ft. concrete sidewalk	.21	.28	.29
4,250 sq.ft. cinder sidewalk	.04	.20	.12
30 ft. 8 in. tile sewer	1.80	3.00	2.00
1 manhole	75.00	125.00	75.00
2 catch basins	70.00	100.00	75.00
2 abandon catch basins	20.00	25.00	30.00
1,000 lb. iron covers	.09	.10	.05
6,300 lb. structural steel	.08	.10	.11
25 cu.yd. brick masonry	27.00	25.00	20.00
1,300 sq.yd. macadam pavement	2.60	2.00	2.00
Extended totals	$109,266.00	$113,927.00	$124,487.00

* Bid per foot.

W. Va., Wheeling—Pass, Weir, etc.—U. S. Eng. Office, Wheeling, received bids Apr. 5 building pass, weir, beartrap, etc., for (a) Dam No. 23, (b) Dam No. 25, Ohio River, from Nat'l Contg. Co., Evansville, Ind., (a) $586,322; (b) $569,423; Dravo Contg. Co., Diamond Bldg., Pittsburgh, Pa., (a) $609,195; (b) $643,710. Noted Mar. 20.

★**La., New Orleans**—Fuel Oil—U. S. Shipping Bd., Wash., D. C., let contract furnishing and delivering 2,000,000 bbl. fuel oil here, to Standard Oil Co. of Louisiana, New Orleans, $.97 per bbl. for Grade No. 2 "B" and $.80 for No. 2 "C."

Ill., Great Lakes—Roads—Pub. Wks. Officer received bids improving roads at Sheridan and Five Points, (work complete), from Contg. & Material Co., 3219 Michigan Ave., Chicago, $81,638; J. Cape & Sons Co., 468 Water St., Racine, Wis., $94,280, (75 days); Marquette Constr. Co., 133 West Washington St., Chicago, Ill., $102,400, (75 days).

Miscellaneous

PROPOSED WORK

Coal Pocket—Cranston (Providence P. O.) **R. I.**—Curran & Burton, Inc., Station St., plan to build concrete coal pocket. About $15,000.

Coal Pocket—Cranston, R. I.—(Providence P. O.)—W. Lunnie, 880 Cranston St., plans to build 2 concrete coal pockets. About $12,000.

Stone—Brooklyn, N. Y.—E. Riegelmann, boro. pres., rejected bids received Feb. 11, furnishing and delivering 3000 cu.yd. 1½ in. broken stone for concrete, etc. Noted Feb. 20.

Pier—Philadelphia, Pa.—G. S. Webster, dir. dept. wharves, docks and ferries, Bourse Bldg., receives bids in May, building 300-500 ft. pier at Penn Treaty Park, wood piles, rein.-con. superstructure.

Harbor Improvements—Grand Isle, La.—Grand Isle Navigation Co. plans to improve harbor facilities and build inland waterway. About $42,000. W. R. Buck, New Orleans, engr.

Dock Equipment—Manitowoc, Wis.—Kelsey Brewer & Co., Grand Rapids Savings Bank Bldg., Grand Rapids, Mich., plans to install coal dock equipment, cranes, overhead carriers, etc., here. About $125,000.

Park Improvements—Henryetta, Okla.—City election Apr. 23 to vote on $10,000 bonds to improve parks. I. Martin, city clk.

Retaining Wall — Astoria, Ore. — See "Streets and Roads."

Retaining Wall — Pendleton, Ore. — City plans to build retaining wall west of Brown Hall to improve Riverside Dr.; also had plans prepared for retaining wall on east extension of Washington St.

Float—Portland, Ore.—Pub. Dock Comn. having plans prepared building landing float and shore stairs on Woodward Ave. G. B. Hegardt, ch. engr.

Dam, etc.—Chowchilla, Cal.—C. J. Bills, 1503 H St., Lincoln, Neb., having surveys made for dam and reservoir in Chowchilla River to impound water to irrigate 10,000 acres Madera and Merced Counties. About $300,000.

Miscellaneous (Continued)

Harbor Improvements—Newport Beach, Cal.—Bd. Supervs. Orange Co., (Santa Ana), election June 5, to vote on $500,000 bonds to improve Newport harbor including extension to jetty, dredging and new channel for Santa Ana River. Leeds & Barnard, Central Bldg., Los Angeles, engrs.

Wharf—Newcastle, Ont.—Newcastle Harbor Co. plans to build wharf. About $15,000.

Gas Mains—Ottawa, Ont.—Ottawa Gas Co., 35 Sparks St., soon receives bids for extending gas mains, involving 200 tons 4 in. c. i. pipe. A. A. Dion, Ottawa, engr.

Memorial Tower—Toronto, Ont.—University of Toronto, Queens Park, had plans prepared by Sproatt & Rolph, archts., North St., for stone memorial tower. About $250,000.

Dock—Vancouver, B. C.—Dominion Government, Ottawa, having plans prepared by Dept. Pub. Wks., Ottawa, for lumber assembling dock on Kitsilanti Indian Reserve, here. About $1,000,000.

BIDS DESIRED

Cranes—Providence, R. I.—Until Apr. 28, by Bd. Contr. & Supply, furnishing 6 or 8 gantry or similar non derricking revolving type cargo unloading cranes to be placed at Municipal wharf. Each crane to be operated by three 220 or 550 volt General Electric or Westinghouse motors.

Dam, etc.—Scituate (North Scituate P. O.) **R. I.**—Until Apr. 23, by Water Supply Bd., City Hall, Providence, building portions of main dam of Scituate reservoir, Contr. No. 11, involving 132,000 cu.yd. earth excav. and borrow, 3500 cu.yd. rock excav., 1500 cu.yd. concrete masonry; also building 3.5 mi. earth road, 10 mi. westerly of Providence, Contr. No. 10, involving 24,000 cu.yd. earth excav. and borrow, 800 cu.yd. rock excav. and 400 cu.yd. concrete masonry. F. E. Winsor, ch. engr.

Flagging, etc.—Brooklyn, N. Y.—Until Apr. 23, by E. R. Riegelmann, boro. pres., furnishing and delivering 10,000 sq. ft. new or used bluestone flagging with 2 in. thickness. Former bids rejected. Noted Feb. 27.

Paving Material—New York, N. Y.—Until Apr. 22, by H. Bruckner, pres. Bronx Boro., furnishing and delivering 25 tons paving pitch and 200,000 gal. asphalt road oil.

N. Y., Poughkeepsie—Until May 1, by Bd. Pub. Wks., Eastman Park Mansion, building rein.-con. pre-filtration plant and placing all pipes, valves, strainers, etc., which will be furnished by Bd. Pub. Wks. E. W. Sylvester, supt.; advertised in this issue.

Road Oil — Baltimore, Md. — Until Apr. 23, by R. Gwynn, city register, furnishing 120,000 gal. asphalt road oil; advertised in this issue.

Transmission Line—La Grange, Ga.—See "Sewers."

Asphalts and Tars—Columbus, O.—Until Apr. 24, by C. Cowen, State Highway Comr., Columbus, furnishing 1,100,000 gal. of tars and asphalts, in tank cars for shipment to various points in Ohio; advertised in this issue.

Floating Dry Dock—Green Bay, Wis.—Morrison & Beck, engrs., 140 South Dearborn St., Chicago, receiving bids building 80 x 100 ft., rein.-con. floating dry dock to include two 15 ft. working platforms made in twelve 40 ft. sections, for C. Hartman, 114 South Oakland Ave. Cost between $400,000 and $500,000. Noted Mar. 13.

River Protection — Washington — See "Streets and Roads."

Wharf—Victoria, B. C.—Until May 2, by Dept. Pub. Wks., Ottawa, Ont., repairing 41x482 ft. wharf at Williams Head Quarantine Station, 9 mi. southwest of here. Work includes renewing 200 timber piles (creosoted) decking, stringers, joists, guards, etc. About $20,000.

SEWERAGE SYSTEM—CHICAGO, ILL.

Bids were received by Board Local Improvements, Mar. 28, for constructing Augusta Ave. sewerage system, from (A) Ryan Co., 4500 West Divison St.; (B) H. J. McNichols Co., 924 South Kilbourne Ave.; (C) John W. Farley, 118 North La Salle St. The unit bids were as follows:

	A	B	C
120 ft. 11 ft. x 8 ft. concrete sewer on private property	$95.00	$86.80	$90.00
540 ft. 11 ft. x 9 ft. concrete sewer on Elston Ave	90.00	67.70	70.00
1,600 ft. 11 ft. x 9 ft. concrete sewer on Augusta St	80.00	42.00	45.00
5,330 ft. 10 ft. 3R brick sewer on Augusta St	40.00	40.00	42.00
4,030 ft. 8 ft. 3R brick sewer on Augusta St	30.00	32.00	35.00
1,340 ft. 7 ft. 3R brick sewer on Noble St	24.00	33.30	32.00
1,000 6 ft. 2R brick sewer on Noble St	16.00	21.20	20.00
870 ft. 5½ ft. 2R brick sewer on Noble St	15.00	20.00	20.00
800 ft. 3½ ft. 2R brick sewer on Noble St	11.00	16.00	17.00
2,660 ft. 4 ft. 2R brick sewer on Leavitt St	12.00	15.50	17.00
1,330 ft. 5½ ft. 2R brick sewer on Leavitt St	14.00	19.30	20.00
1,330 ft. 5 ft. 2R brick sewer on Leavitt St	13.00	18.00	20.00
1,000 ft. 4 ft. 2R brick sewer on Leavitt St	12.00	14.35	15.00
870 ft. 3½ ft. 2R brick sewer on Leavitt St	11.00	13.25	14.00
780 ft. 3 ft. 2R brick sewer on Leavitt St	10.00	12.00	12.50
50 ft. 5 ft. 2R brick sewer connections	14.00	40.00	38.00
50 ft. 4½ ft. 2R brick sewer connections	12.00	40.00	36.00
100 ft. 4 ft. 2R brick sewer connections	11.00	40.00	34.00
50 ft. 3 ft. 2R brick sewer connections	10.00	30.00	25.00
50 ft. 2½ ft. 2R brick sewer connections	8.00	30.00	20.00
200 ft. 2 ft. DS tile pipe sewer connections	7.00	10.00	12.00
50 ft. 18 in. DS tile pipe sewer connections	5.00	8.00	9.00
300 13 in. tile pipe sewer connections	4.50	5.00	6.00
800 12 in. tile pipe sewer connections	4.00	5.00	5.00
Concrete bulkhead	10,000.00	20,000.00	18,000.00
75 brick manholes	50.00	60.00	65.00
10 brick catch basins	60.00	75.00	75.00
(a) 7000 cu.yd. Class "A" concrete (1 fine agg to 2 coarse agg, 7 cu.ft. of concrete in place to contain 94-lb. cement)	9.00	7.50	8.00
(b) 100 cu.yd. Class "A" concrete	9.00	7.50	8.00
(a) 100 cu.yd. Class "B" concrete (1 fine agg to 2 coarse agg, 5½ cu.ft. of concrete in place to contain 94 lb. cement)	10.00	12.00	12.00
(b) 100 cu.yd. Class "B" concrete	10.00	12.00	12.00
1,000 sq.yd. temporary granite pavement	.70	1.00	1.25
(a) 2,500 sq.yd. permanent granite pavement	.90	3.00	2.75
5,000 sq.yd. temporary brick pavement	1.00	1.00	1.25
(a) 17,000 sq.yd. permanent brick pavement	1.60	2.65	2.50
(a) 33,000 sq.yd. permanent asphalt pavement	1.90	1.75	1.65
3,000 cu.yd. macadam	6.00	4.50	5.00
25,000 ft. b.m. temporary plank pavement	.12	75.00	80.00
(a) 100 ft. curb and gutter	1.15	1.00	1.00
(a) 600 ft. vertical curb	1.15	1.00	1.00
(a) 90,000 cu.yd. excavation and removal	1.50	1.50	1.50
(b) 80,000 cu.yd. excavation and removal	1.50	1.50	1.50
12,000 cu.yd. rock excavation	4.00	6.00	6.00
Extended totals with permanent pavement	$1,079,815	$1,173,970	$1,147,790
Extended totals without permanent pavement	$909,760	$997,907	$974,865

Bidders were required to bid on job with and without permanent paving. Bids including the permanent paving include all items marked "a" and exclude items marked "b." Bids not including permanent paving exclude items marked "a" and include items marked "b."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Pipe—Fall River, Mass.—City received bids furnishing c.i. pipe in 2 and 3 ft. lengths for 1 year, from Borden & Remington, 115 Ann St., 67½ and 68½% off list price; J. F. Johnston Co., 65½ and 62½% off list price; W. M. Pettey, 129 Front St., 60 and 75% off list price.

★**Pipe, etc.—New Britain, Conn.**—City let contract furnishing sewer pipe for year 1919, to City Coal & Wood Co., 141 Elm St., 69½% off list price; Portland Cement, to Swift & Upson Lumber Co., 153 Elm St., $3.38 per bbl.

★**Heating and Ventilating Apparatus—New York, N. Y.**—Bd. Educ. let contract improving heating and ventilating system in P. S. 40, Bronx Boro., to D. J. Rice, 405 Lexington Ave. About $62,173. Noted Apr. 3.

★**Elevator Tower—Phila., Pa.**—Phila. Gen. Hospital, 34th and Pine Sts., let contract building elevator tower, to M. H. McClosky, Inc., 1620 West Thompson St.; $11,019.

Paving Material—Springfield, Ill.—Dept. Pub. Wks. received bids Apr. 2, furnishing about 2,000,000 bbls. Portland cement for state and Federal-aid road and bridge work, from Lehigh Portland Cement Co., 111 West Washington St., Chicago; Atlas Portland Cement Co., 134 South La Salle St., Chicago; Universal Portland Cement Co., 210 South La Salle St., Chicago; Missouri Portland Cement Co., Life Bldg., St. Louis, Mo.; Continental Portland Cement Co., Wright Bldg., St. Louis, Mo.; Louisville Portland Cement Co., Speed Bldg., Louisville, Ky.; Sandusky Portland Cement Co., Columbus, O. Bids ranged from $1.90 per bbl. net (delivered to railroad station in county designated) to $2.14 in the 102 counties, 5c. less per bbl. for bulk. Bids of 7 companies for each individual county were identical in practically every case. Noted Mar. 27.

★**Piles—Blythe, Cal.**—Palo Verde Joint Levee Dist. let contract hauling and driving about 400 timber piles to form jetties and revetments in Colorado River; also bridge work over trestles and timber frame for brush revetments, south of Ehrenburg crossing 4½ mi. southeast of here, involving 60,000 lin.ft. lumber, to Wattson & Hunter, 4907 Melrose Ave., Los Angeles. Dist. will furnish material. About $10,000.

Pier—Manhattan Beach (Manhattan P. O.), **Cal.**—City received bids building deck and superstructure of rein.-con. pleasure pier, from Darrell Condley Co., 520 Marsh Strong Bldg., Los Angeles, $33,500; C. D. Sotieas, 775 East 14th St., Los Angeles, $36,750; C. A. Palmer, San Francisco, $39,600.

★**Asphalt—St. John, N. B.**—City let contract furnishing 460 tons Mexican asphalt, to J. T. Knight, $27.75 per ton. Noted Mar. 13.

★**Cement, Sewer Pipe, Etc.—Brantford, Ont.**—City let contracts supplying cement during 1919, to Wilson Coal Co., 128 Nelson St.; sewer pipe, to Hamilton & Toronto Sewer Pipe Co., Wentworth St., N., Hamilton; crushed stone, to Hagersville Crushed Stone Corp., Dundas. Noted Mar. 20.

★**Pipe, Valves, etc.—Ottawa, Ont.**—City let contract to Natl. Iron Corp., foot of Cherry St., Toronto, furnishing 500 ft. 3 in. c. i. pipe, at $95 per net ton, 500 ft. 4 in. c. i. pipe, $82 per net ton and 2500 ft. 5 and 6 in. c. i. pipe, $80 per net ton; to Drummond McCall Co., 28 Victoria Sq., Montreal, for twelve 3 in. gate valves, $9.95 each, twelve 5 in. gate valves, $19.70 each, six 8 in. gate valves, $37.70 each and three 12 in. gate valves at $93.00 each; to Canadian Fairbanks Morse Co., 26 Front St., Toronto, for 1000 ft., ¾ in., 2000 ft. 1 in., 500 ft. 1¼ in. and 500 ft. 1 in. lead pipe at $.13 per lb., 10,000 lbs. pig lead, (best quality) $.07 per lb., three hundred ¾ in. couplings, $.59 each and fifteen 2 in. corporation cocks, $8.25 each; to J. Robertson Co., Ltd., 215 Spadina Ave., Toronto, for three hundred 1 in. curb cocks at $1.80 each, 50 in. curb cocks, $2.60 each and 500 service post screws, $.07 each.

OFFICIAL PROPOSALS

OFFICIAL PROPOSALS

Bids: April 29.

Canal Terminals

STATE OF NEW YORK
OFFICE OF SUPERINTENDENT OF PUBLIC WORKS
Albany, New York.

Sealed proposals will be received by the undersigned at his office in the Capitol at Albany, N. Y., until twelve o'clock noon of Tuesday, April 29th, 1919, at which place and hour they will be publicly opened and read, for the construction of Barge canal terminals pursuant to the provisions of Chapter 746 of the Laws of 1911, and of the acts amendatory thereof, as follows:

—1—

TERMINAL CONTRACT NO. 44-P.

For paving parts of the terminal sites at Mott Haven, Greenpoint and Gowanus Bay.

Contract plans, sheets 1 to 5, inclusive.

—2—

TERMINAL CONTRACT NO. 77

For dredging at the Barge canal terminals at Piers 5 and 6, East river, at Greenpoint, and at Long Island City, New York.

Contract plans, sheets 1 to 4, inclusive.

—3—

TERMINAL CONTRACT NO. 218

For constructing a Barge canal terminal freight-shed on Pier 93, West 53rd Street, North River, New York City.

Contract plans, sheets 1 to 7, inclusive.

Plans may be seen and detailed specifications, engineer's estimate of quantities, proposal blanks, forms of contract and bonds required and other information for proposers may be had at the office of the Superintendent of Public Works at Albany, N. Y., at the office of the Assistant Superintendent of Public Works for the Middle Division at Syracuse, N. Y., at the office of the Assistant Superintendent of Public Works for the Western Division at Rochester, N. Y., and at the canal office, Spaulding's Exchange, Buffalo, N. Y.

Copies of detailed plans or drawings may be obtained from the State Engineer and Surveyor at Albany, N. Y., upon payment to him of the cost of producing them.

Monthly estimates will be paid of ninety per centum (90 per cent.) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city of Albany or New York, issued by a national or state bank or trust company in good credit within the state and payable at sight to the Superintendent of Public Works for five per centum (5 per cent.) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time, in which case the amount of the deposit will be refunded by the Superintendent of Public Works.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

Price, $3.60 an inch—Copy can be received until Wednesday, 10 a.m., for issue out the next morning.

The publication of an advertisement on this page is an official notice that bids are wanted from other than local bidders.

It is also a guarantee that maximum competition is invited because Engineering News-Record is the *one* nationally recognized medium for Proposal advertising. Its Searchlight Section is read each week by nearly every worth-while contractor in this country who bids on public work outside his own city.

OFFICIAL PROPOSALS

The bond required for the faithful performance of each contract shall be in such sum as shall be fixed by the Superintendent of Public Works, which sum shall not be less than twenty per centum (20 per cent.) of the estimated cost of the work according to the contract price, and an additional bond, known as the labor bond, in the sum of ten per centum (10 per cent.) of the amount of the estimated cost of the work according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds co-insurance only will be accepted.

Each proposal must be addressed to the Superintendent of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the state for doing the work, and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Public Works of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the regular manner, if, in the judgment of the undersigned, the interests of the state will be enhanced thereby.

LEWIS NIXON,
Superintendent of Public Works.

PROPOSALS FOR STERN WHEEL STEEL TOWBOAT "CAPTAIN CHAS. D. HARRIS."—Office, Mississippi River Commission, 1st and 2nd Districts, Custom House, Memphis, Tenn.—Sealed proposals will be received here until 11 A.M., April 25, 1919, and then opened, for furnishing one stern wheel steel towboat. Further information on application.

U. S. ENGINEER OFFICE, Room 710, Army Building, 39 Whitehall Street, New York, N. Y.—Sealed proposals will be received here until 12 m., May 1, 1919, and then opened, for removing wreck of "Steamship Serantes," sunk in upper bay, New York Harbor. Information on application.

OFFICIAL PROPOSALS

Bids: April 22

Highway Work

STATE OF MARYLAND
STATE ROADS COMMISSION

Sealed proposals for building four sections of State Highway, as follows:

Carroll County, Contract C1-20: One section of Littlestown Pike from Town Limits of Westminster toward Union Mills, for a distance of 2.01 miles. (Concrete.)

Frederick and Washington Counties, Contract W-16A: One section of State Highway from Knoxville to Harpers Ferry, for a distance of 3.51 miles. (Concrete.)

Howard County, Contract Ho-12: One section of Clarksville Pike from Highland to Clarksville, for a distance of 2.51 miles. (Concrete.)

Kent County, Contract K-12: One section of Rock Hall to Swan Creek Road, near Edesville, for a distance of 3.03 miles. (Concrete.)

will be received by the State Roads Commission, at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 22nd day of April, 1919, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which with specifications and plans will be furnished by the Commission upon application and cash payment of $1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred ($500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this 3rd day of April, 1919.

FRANK H. ZOUCK, Chairman.
CLYDE H. WILSON, Secretary.

Bids: April 21.

Storm Sewers

Highland Park, N. J.

Sealed proposals will be received by the Council of the Borough of Highland Park, at a meeting thereof to be held at the Fire House on Raritan Avenue, Highland Park, New Jersey, on Monday, April 21st, 1919 at 8 p.m., for the construction of Storm Sewers and drains in accordance with plans and specifications prepared for the same by John T. Hopkins, Borough Engineer, approved by said Council. Copies of said plans and specifications may be procured by application to said Borough Engineer at his office in said Fire House.

Said work will be divided in two contracts and bidders may submit proposals for one of said contracts or both of them. Such proposals must be submitted on separate blanks and each proposal must be accompanied by a certified check payable without condition to the order of said Borough of Highland Park for the sum of one thousand ($1000) dollars.

Council reserves the right to reject any and all bids.

ROBERT B. CRAIG,
Borough Clerk.